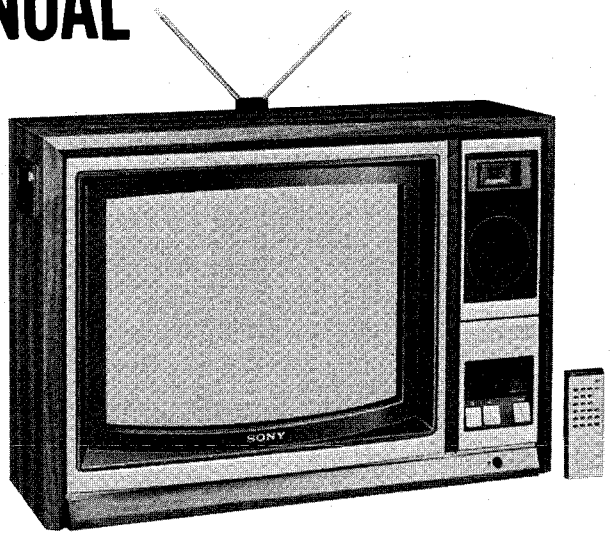
KV-2072ME5
RM-622

SERVICE MANUAL

Chassis No : SCC-501A-A



August, 1983

XE-3 CHASSIS

SPECIFICATIONS

Television system	CCIR system B, G, H, and M
Color system	PAL/SECAM/NTSC/NTSC4.43
Channel coverage	VHF channels E2–12, A2–13 UHF channels E21–68, A14–78
Picture tube	Trinitron system 52 cm (20 inches), 49 cm screen measured diagonally, 100-degree deflection
Antenna	75-ohm standard coaxial socket
Speaker	Two-way: Approx. 5 × 2.7 cm tweeter Approx. 12 cm dia. woofer
Audio output	2.5W (with 10% harmonic distorsion)
Power requirements	110–240 V ac, 50/60 Hz
Power consumption	95 W
Dimensions	Approx. 712 × 505 × 468 mm (w/h/d)
Weight	Approx. 28 kg
Accessories supplied	Remote Commander RM-622 (1) Earphone (1) IEC antenna connector plug (1) External antenna connector (300–75 ohm matching transformer is built-in.) (1) UHF/VHF mixer EAC-53 (1) Power cord plug adaptor (1) VHF telescopic dipole antenna (1) Antenna holder (1)

MICROFILM

TRINITRON® COLOUR TV

SONY®

CTV

WARNING !!

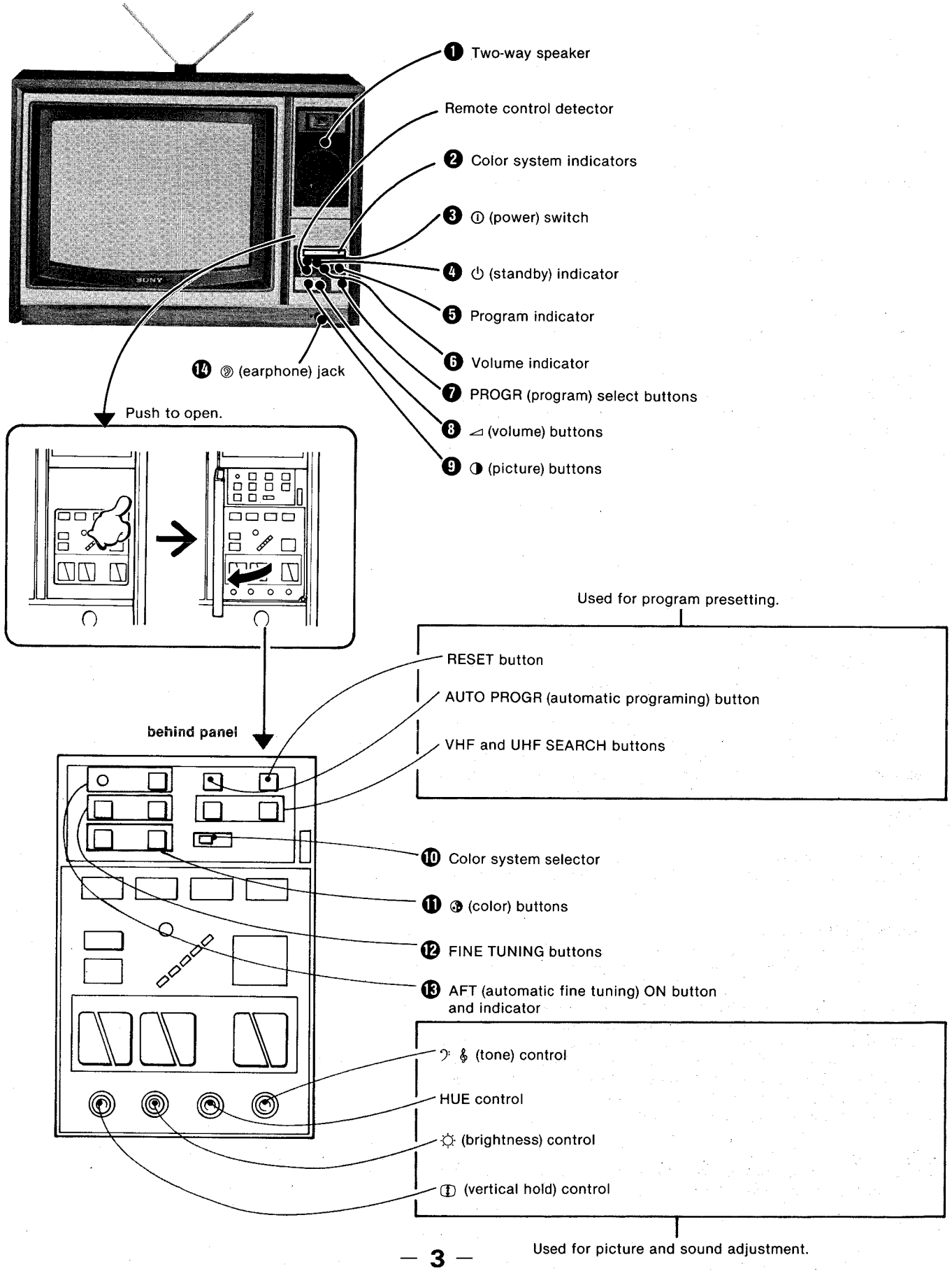
AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SECTION 1
OUTLINE

1-1. LOCATION AND FUNCTION OF CONTROLS



❶ Two-way speaker
Consists of a tweeter and a woofer.

❷ Color system indicators
Indicate the color system of your local TV programs or of the VTR playback. While monochrome programs (TV programs as well as the VTR playback) are being viewed, no indicators will light.

❸ ⏻ (power) switch
Press to turn on the TV. Press again to turn it off.

❹ ⏻ (standby) indicator
Blinks when any function button on the TV or on the Remote Commander is pressed.

❺ Program indicator
Indicates the selected program number.

❻ Volume indicator
At the lowest volume or when the sound is muted, no segment is illuminated and at the highest volume all segments are illuminated.

❼ PROGR (program) select buttons
Press to select a preset program (from positions 1 through 29 and 0). Press + for higher-numbered programs, and – for lower-numbered programs. Programs will be changed continuously in sequence.

❽ ◅▻ (volume) buttons
Press to regulate the volume. Press + to increase the volume and – to decrease it.

❾ ◑ (picture) buttons
Press to adjust the picture contrast. Press + to increase the picture contrast and – to decrease it.

❿ Color system selector
At the AUTO factory-preset position, the PAL, SECAM, NTSC, or NTSC4.43 system will be automatically selected.
In case of extreme interference or of an extremely weak signal during TV reception or during VTR playback, set to the position corresponding to the color system being used.
To view NTSC programs only, just set this selector to NTSC. To view PAL programs only or to view the playback of NTSC-recorded video cassettes which produce an NTSC4.43 system signal, set it to PAL
NTSC4.43.

⓫ ❸ (color) buttons
Press to adjust the color. Press + for more color and – for less color.

⓬ FINE TUNING buttons
Keep either + or – depressed to get a clear picture for a channel. The AFT circuit will be automatically deactivated.

⓭ AFT (automatic fine tuning) ON button and indicator
When the AFT circuit activates, the indicator illuminates. Press the AFT ON button to restore automatic fine tuning on a channel which has been fine-tuned manually with the FINE TUNING buttons. After the automatic programing is finished, or after a station has been tuned in and memorized with the manual programing system, the AFT circuit will automatically reactivate.

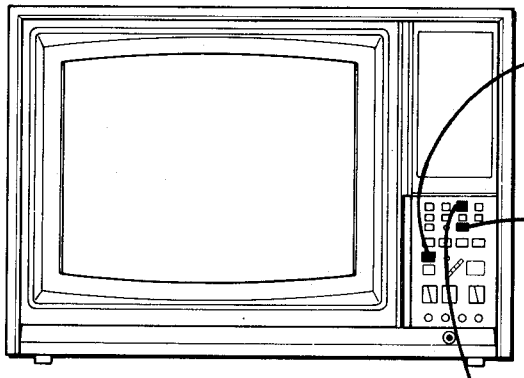
⓮ ⓟ (earphone) jack
Connect the supplied earphone here for private listening. This disconnects the speaker of the TV set.

1-2. PROGRAM PRESETTING

This TV has 30 program positions. Once you preset the channels broadcast in your area, program selection is simply made by pressing the PROGR buttons on the TV or the hand-held Remote Commander. Preset programs by following one of these procedures; automatic programing or manual programing.

AUTOMATIC PROGRAMING

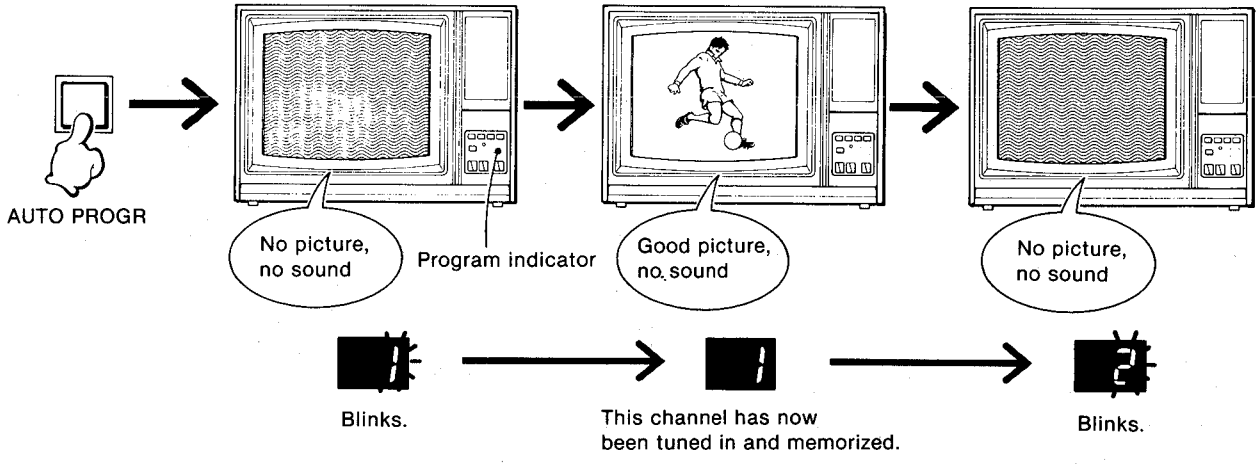
With the automatic programing system, receivable VHF and UHF channels in your area can be preset automatically in numerical sequence; from the lowest frequency VHF channel through the highest UHF channels. If a channel you wish to preset is not strong enough to be preset with the automatic programing system, use the manual programing. See page 6.



1 **Press ⏻ to turn on the TV**

2 **Set the color system selector to AUTO.**

3 **Press the AUTO PROGR button.**
Automatic programing will begin.
The first channel found will be memorized on program position 1, the second on position 2, and so on.
Program 30 will be indicated as " 0 " in the program indicator.



This tuning-memorizing sequence will be repeated for each channel in your area.
When no more channels can be found, automatic programing will stop, and the program preset on the first program position will appear on the TV screen.
The number " 1 " will light (not blink) on the program indicator.

After presetting has been completed, press the PROGR buttons to check the results of the automatic programing, referring to your local TV listings.

To cancel automatic programing while it is in progress, press the RESET button, or + or – PROGR button.

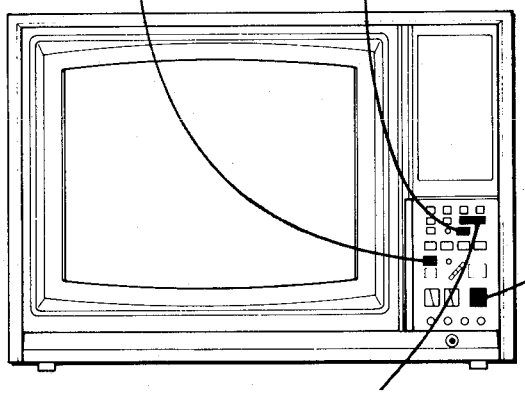
MANUAL PROGRAMING

With the manual program search system, the channels you want can be preset in a desired sequence.
Any channel can be set to any program position. Consult your local TV listings to find out the active channels in your area.
Make a list of your desired VHF and UHF channels and arrange them in a desired sequence.

1 Press ⏻ to turn on the TV.

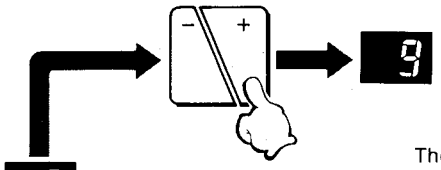
2 **Set the color system selector to AUTO.**

PAL
NTSC4.43 AUTO NTSC



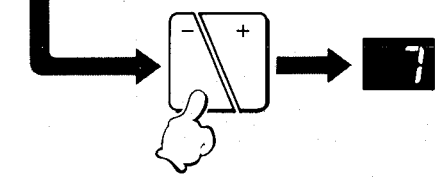
3 **Press the + or – PROGR button to select the number of the program position to which the channel is to be preset.**

for higher-numbered program position



PROGR

The number selected appears in the program indicator.

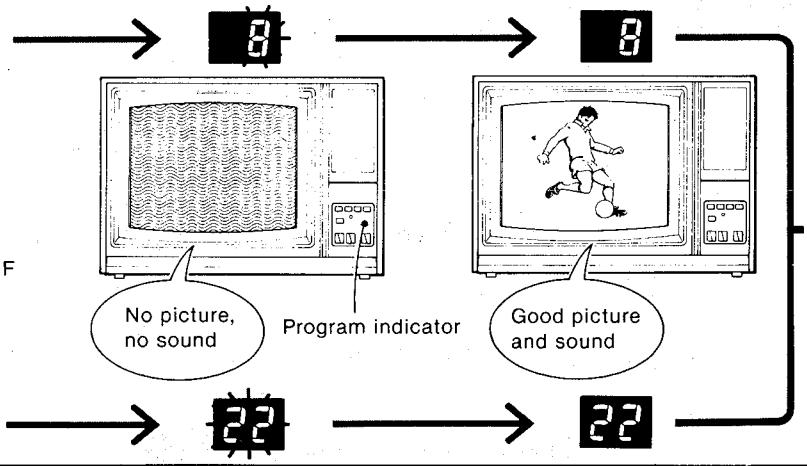


for lower-numbered program position

4 **Press the VHF or UHF SEARCH button,** as required until the desired channel is received.
Do not hold the button in, just press it briefly, and the channel will advance by one.
When the programing reaches the highest channel within the band, the next push will show you the lowest channel in the band.

to search for the VHF channels E2–12 and A2–13

to search for the UHF channels E21–68 and A14–78



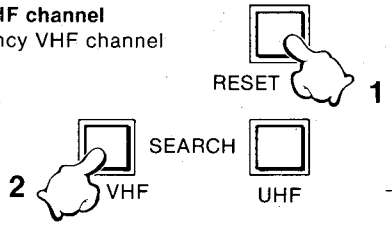
Stops blinking. This channel has now been tuned in and memorized.

5 **Repeat steps 3 and 4 for all the desired channels.**

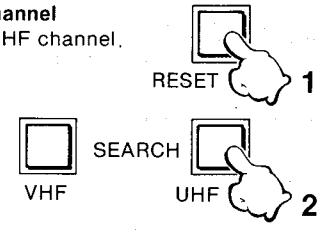
RESET button
If this button is pressed, the memory on the selected program position will be erased and the set will be automatically tuned to a frequency below channel 2.
The erased program position will be skipped by pressing the PROGR buttons on the Remote Commander.
To tune in the desired station in step **4** above, you may alternately use the RESET button.

Press the RESET button first, then the appropriate SEARCH button.

For the lowest-frequency VHF channel
The available lowest-frequency VHF channel will be tuned in.

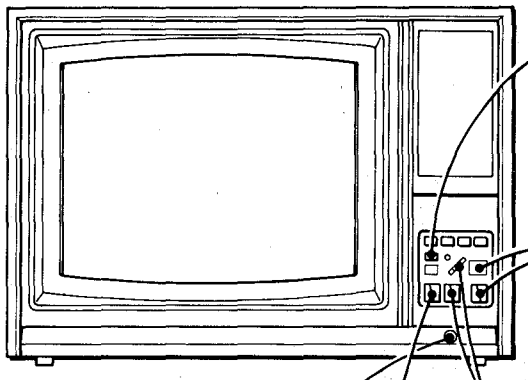


For the lowest-frequency UHF channel
The available lowest-frequency UHF channel will be tuned in.



1-3. BASIC OPERATION ON THE PANEL

OPERATING STEPS AND INITIAL ADJUSTMENTS

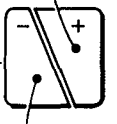


1 **Press ⏻ to turn on the TV.**

2 **Select the desired TV program.**

for a higher-numbered program

PROGR



for a lower-numbered program

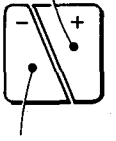
The selected program number appears in the program indicator.

For private listening with the supplied earphone, insert the earphone plug into the 🎧 jack. This disconnects the speaker.

3 **Adjust the volume, referring to the volume indicator.**

to increase the volume
(More segments of the indicator will light.)

◅

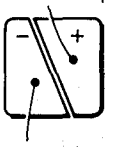


to decrease the volume
(Fewer segments of the indicator will light.)

4 **Adjust the picture contrast.**

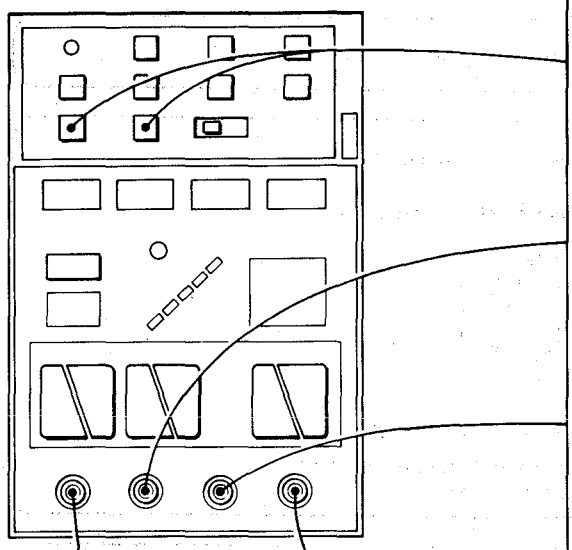
to increase the picture contrast

◑



to decrease the picture contrast

behind panel



5 Adjust the picture conditions.

for less color — for more color

− +

for less brightness — for more brightness

Skin tones become purplish. — Skin tones become greenish.

HUE

NTSC/NTSC4.43

This control is effective in the NTSC or NTSC4.43 system.

6 Adjust the sound condition.

for less treble — for more treble

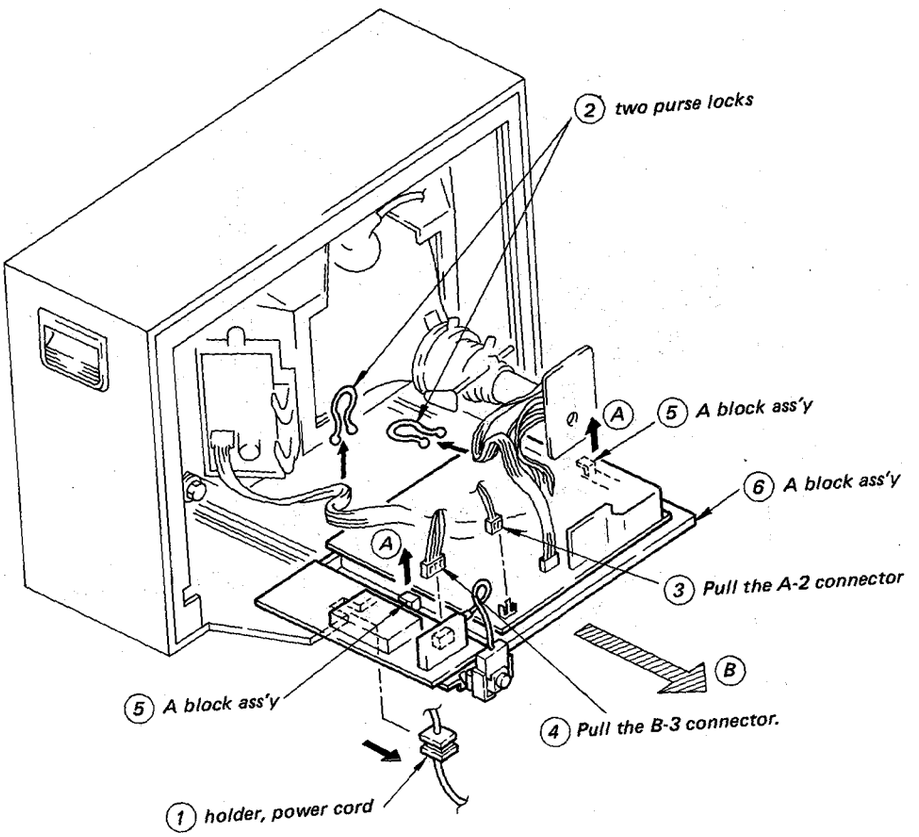
If the picture rolls vertically

Adjust the ⓘ control.

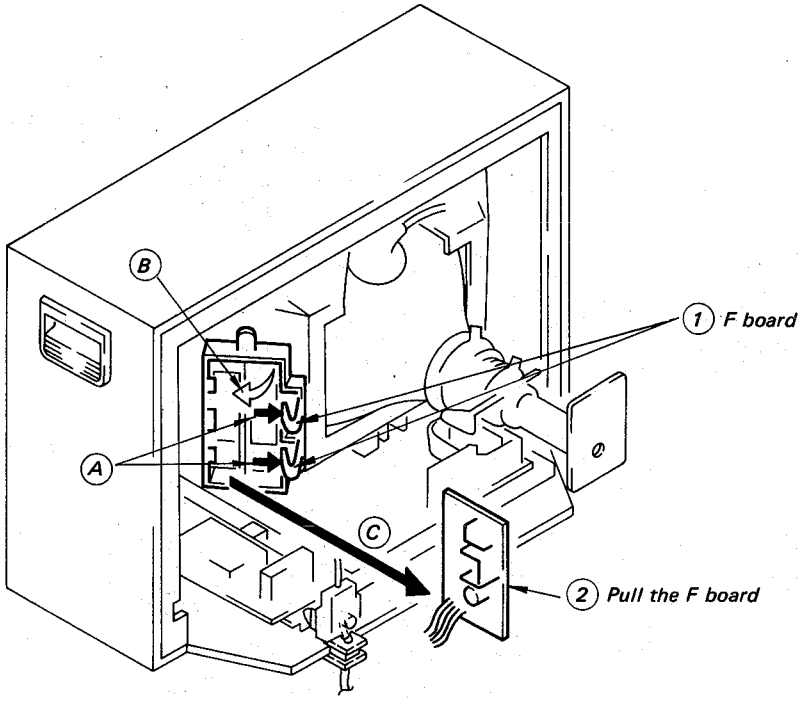
- If the picture is distorted and two of the color system indicators blink alternately, set the color system selector to the position which corresponds to the color system being used.
- The condition of the power (controlled by the ⏻ and ON switches on the Remote Commander) and the settings of the program, volume, picture and color buttons remain memorized even when the ⏻ switch on the TV is turned off.

SECTION 2
DISASSEMBLY

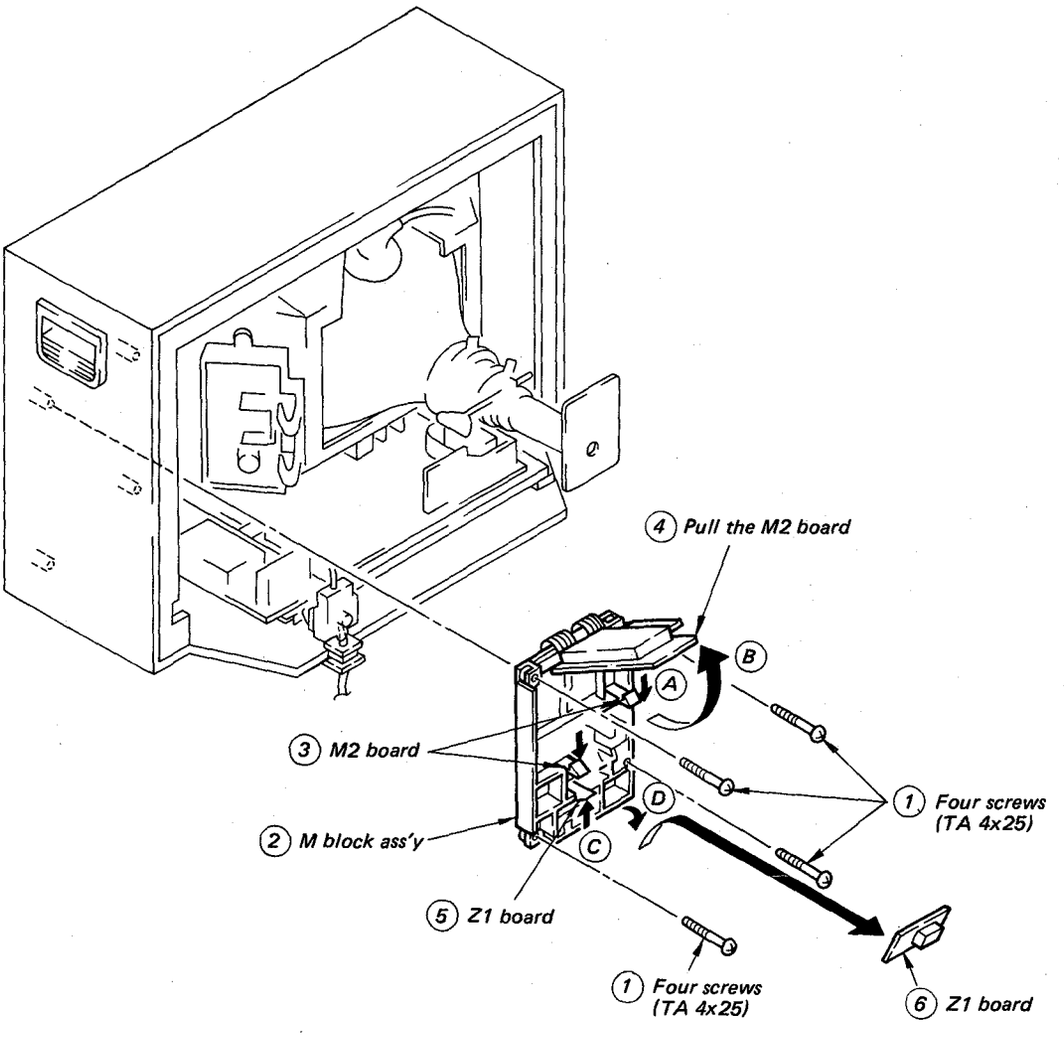
2-1. A BLOCK ASS'Y REMOVAL



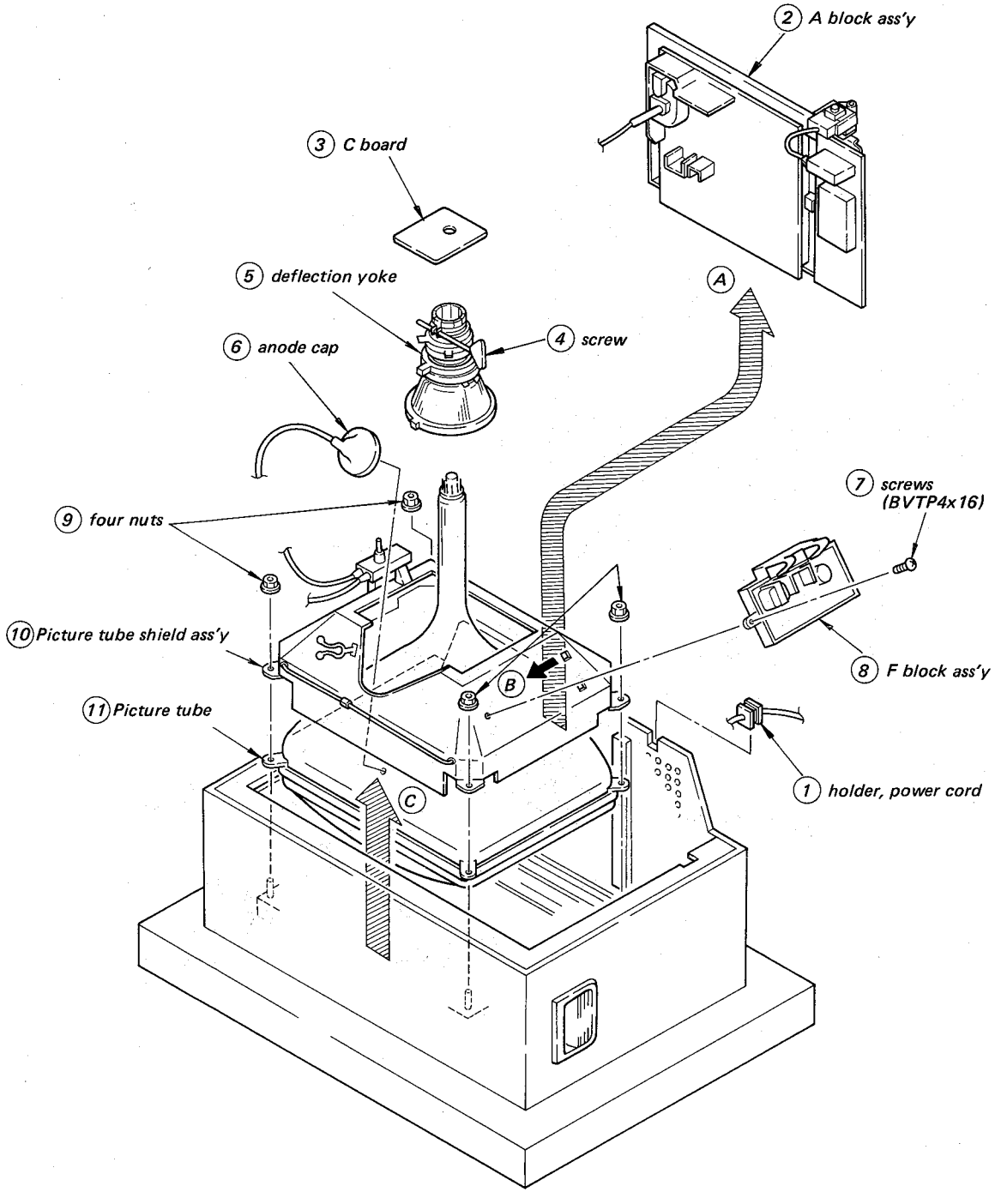
2-2. F BOARD REMOVAL



2-3. M BLOCK ASS'Y REMOVAL

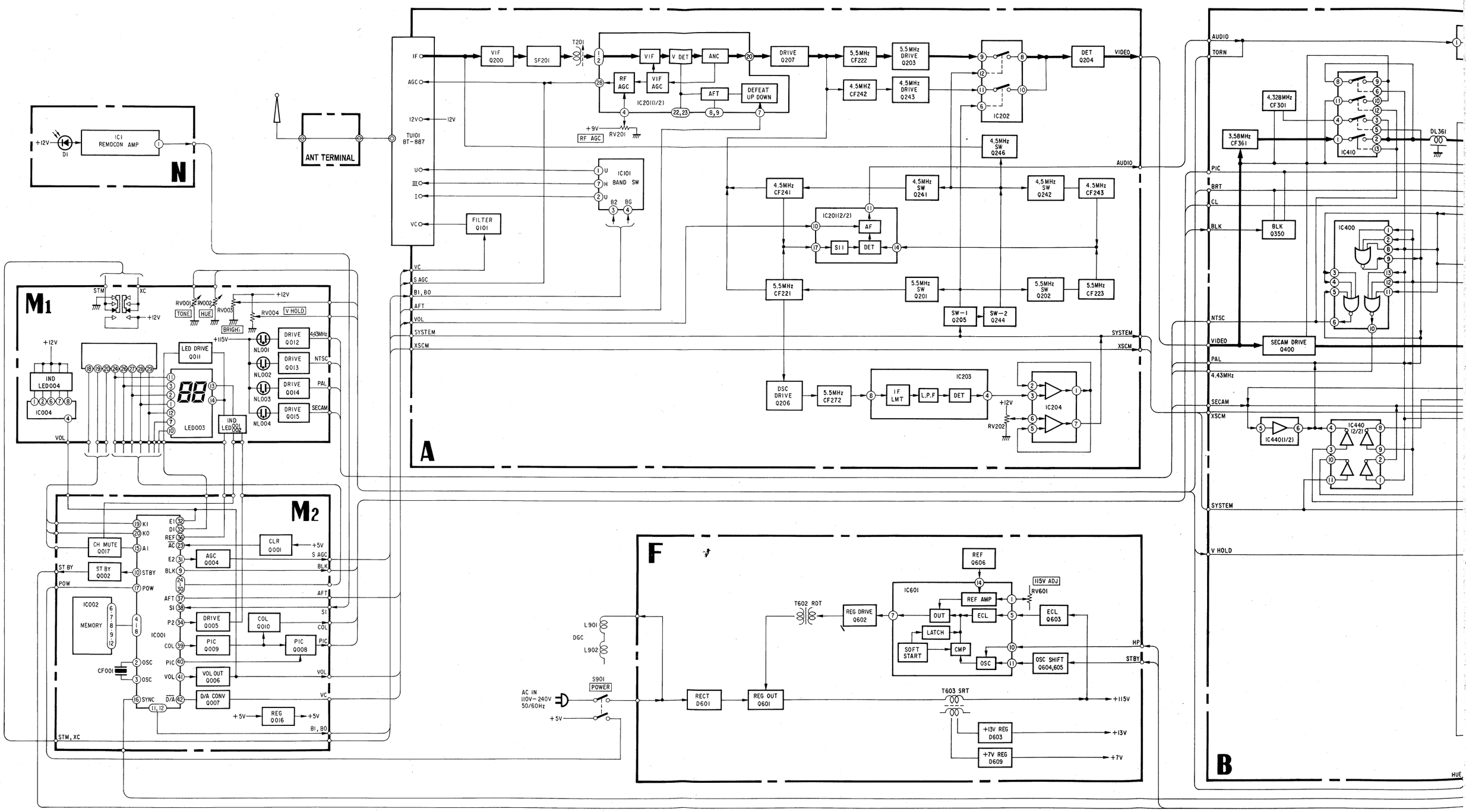


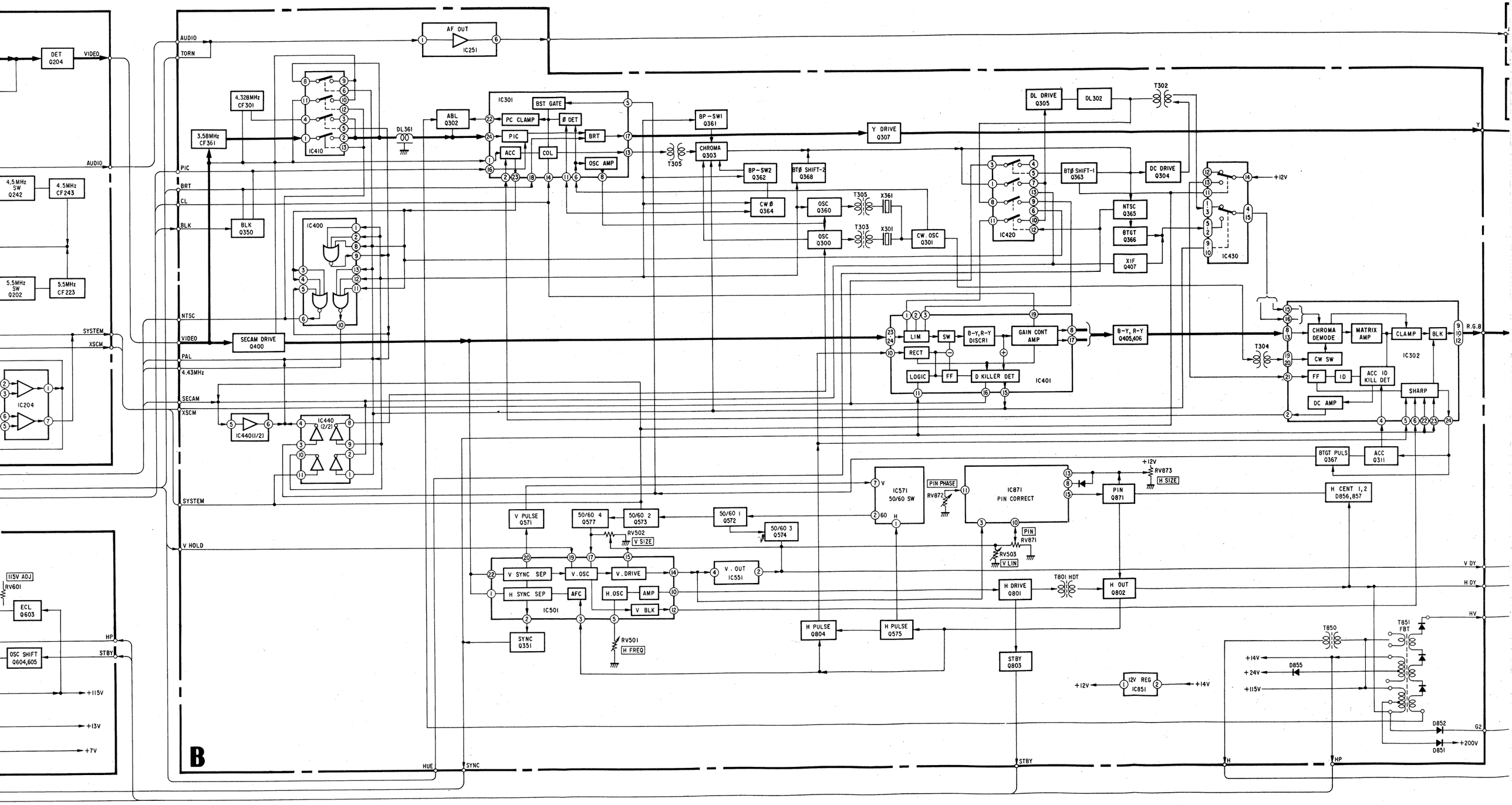
2-4. PICTURE TUBE REMOVAL



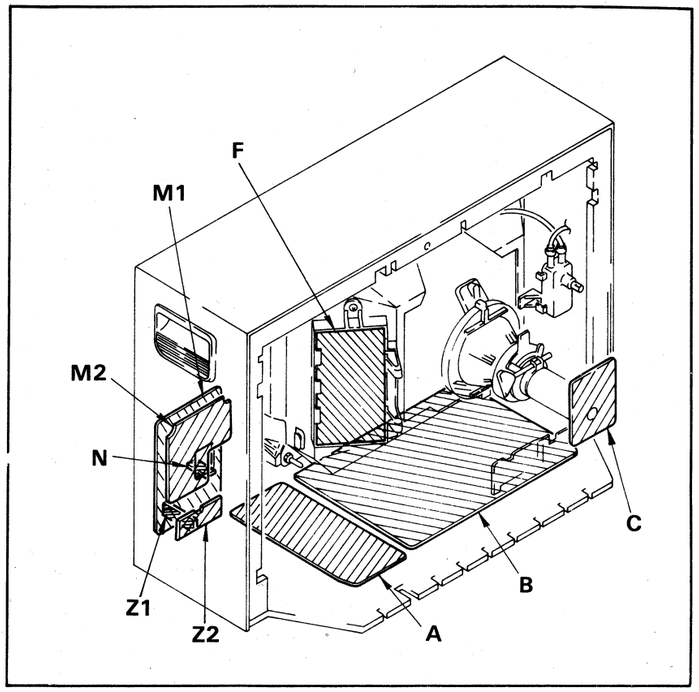
SECTION 3
DIAGRAMS

3-1. BLOCK DIAGRAM

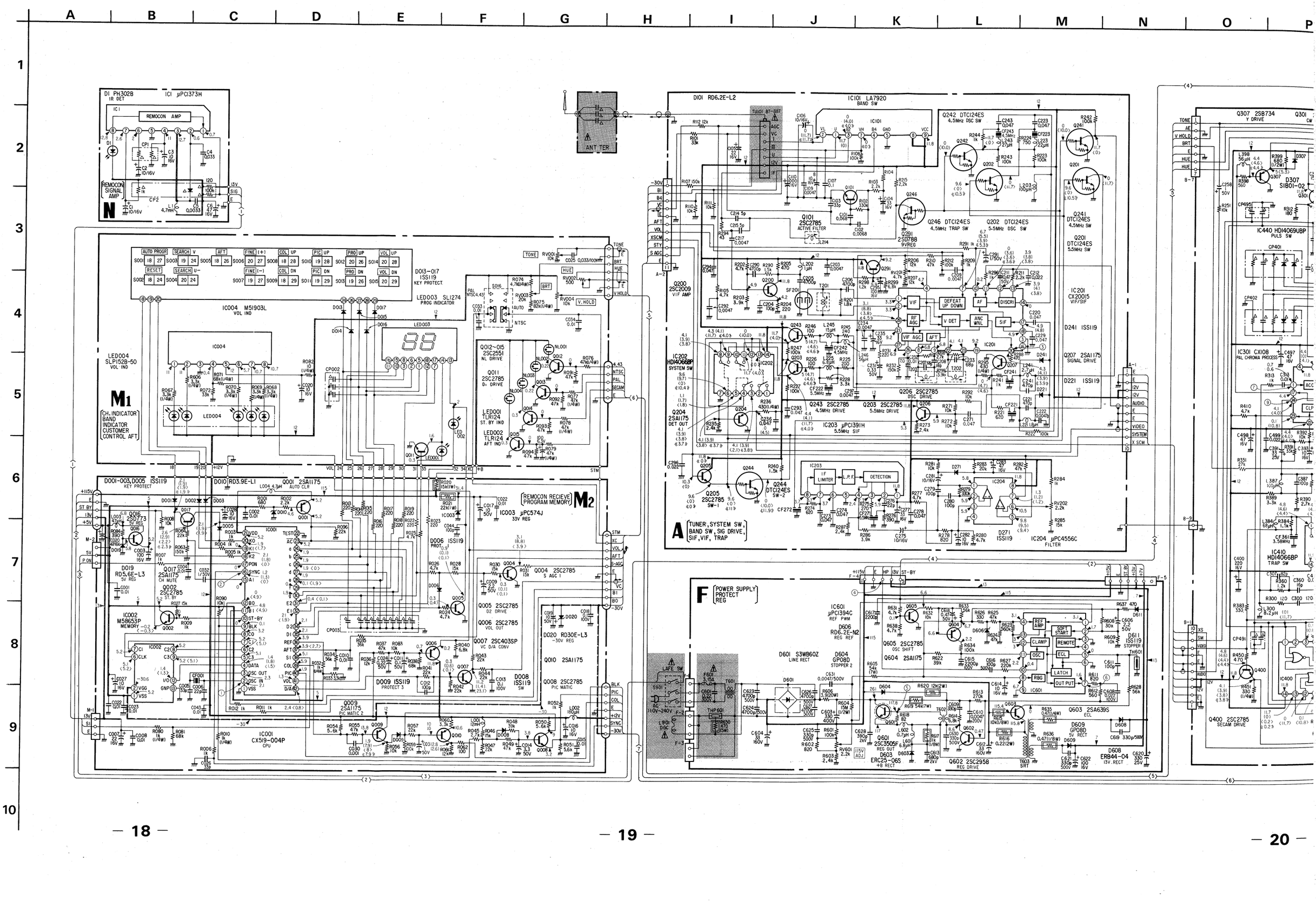


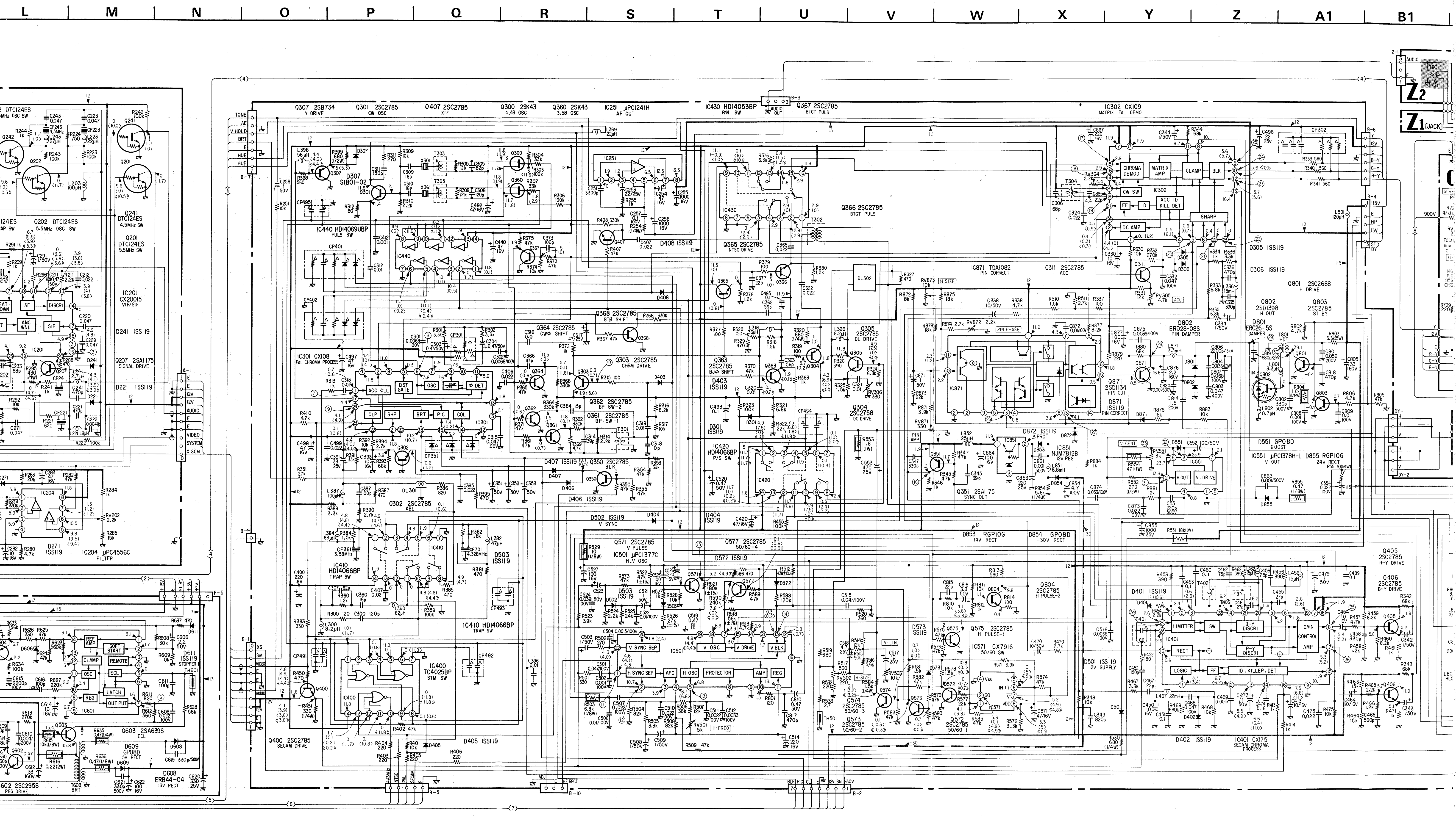

DET Q204
VIDEO
AUDIO
4.5MHz SW Q242
4.5MHz CF243
5.5MHz SW Q202
5.5MHz CF223
IC204
SYSTEM
XSCM
115V ADJ
RV601
ECL Q603
OSC SHIFT Q604,605
HP
STBY
+115V
+13V
+7V
AUDIO
TORN
PIC
BRT
CL
BLK
NTSC
VIDEO
PAL
4.43MHz
SECAM
XSCM
SYSTEM
V HOLD
HUE
SYNC
B
AF OUT
IC251
4.328MHz CF301
3.58MHz CF361
IC410
DL361
BLK Q350
IC400
SECAM DRIVE Q400
IC440 (2/2)
IC440(1/2)
IC301
BST GATE
PC CLAMP
Ø DET
PIC
BRT
ACC
COL
OSC AMP
ABL Q302
T305
BP-SW1 Q361
CHROMA Q303
BP-SW2 Q362
BTØ SHIFT-2 Q368
CWØ Q364
OSC Q360
OSC Q300
T305
X361
T303
X301
CW. OSC Q301
Y DRIVE Q307
DL DRIVE Q305
DL302
T302
Y
BTØ SHIFT-1 Q363
DC DRIVE Q304
NTSC Q365
BTGT Q366
X1F Q407
IC420
IC430
+12V
LIM
SW
B-Y, R-Y DISCRI
GAIN CONT AMP
RECT
LOGIC
FF
D KILLER DET
IC401
B-Y, R-Y Q405,406
T304
CHROMA DEMODE
MATRIX AMP
CLAMP
BLK
R.G.B
IC302
CW SW
FF
ID
ACC ID KILL DET
SHARP
DC AMP
BTGT PULS Q367
ACC Q311
H CENT 1, 2 D856,857
IC571 50/60 SW
PIN PHASE
RV872
IC871 PIN CORRECT
PIN Q871
+12V
RV873
H SIZE
PIN
RV871
RV503
V LIN
V PULSE Q571
50/60 4 Q577
50/60 2 Q573
RV502
V SIZE
50/60 1 Q572
50/60 3 Q574
V SYNC SEP
V. OSC
V. DRIVE
V. OUT IC551
H SYNC SEP
AFC
H. OSC
AMP
V BLK
IC501
SYNC Q351
RV501
H FREQ
H PULSE Q804
H PULSE Q575
H DRIVE Q801
T801 HDT
H OUT Q802
STBY Q803
V DY
H DY
HV
T850
T851 FBT
+14V
+24V
+115V
D855
12V REG IC851
D852
D851
G2
+200V
H
HP
STBY

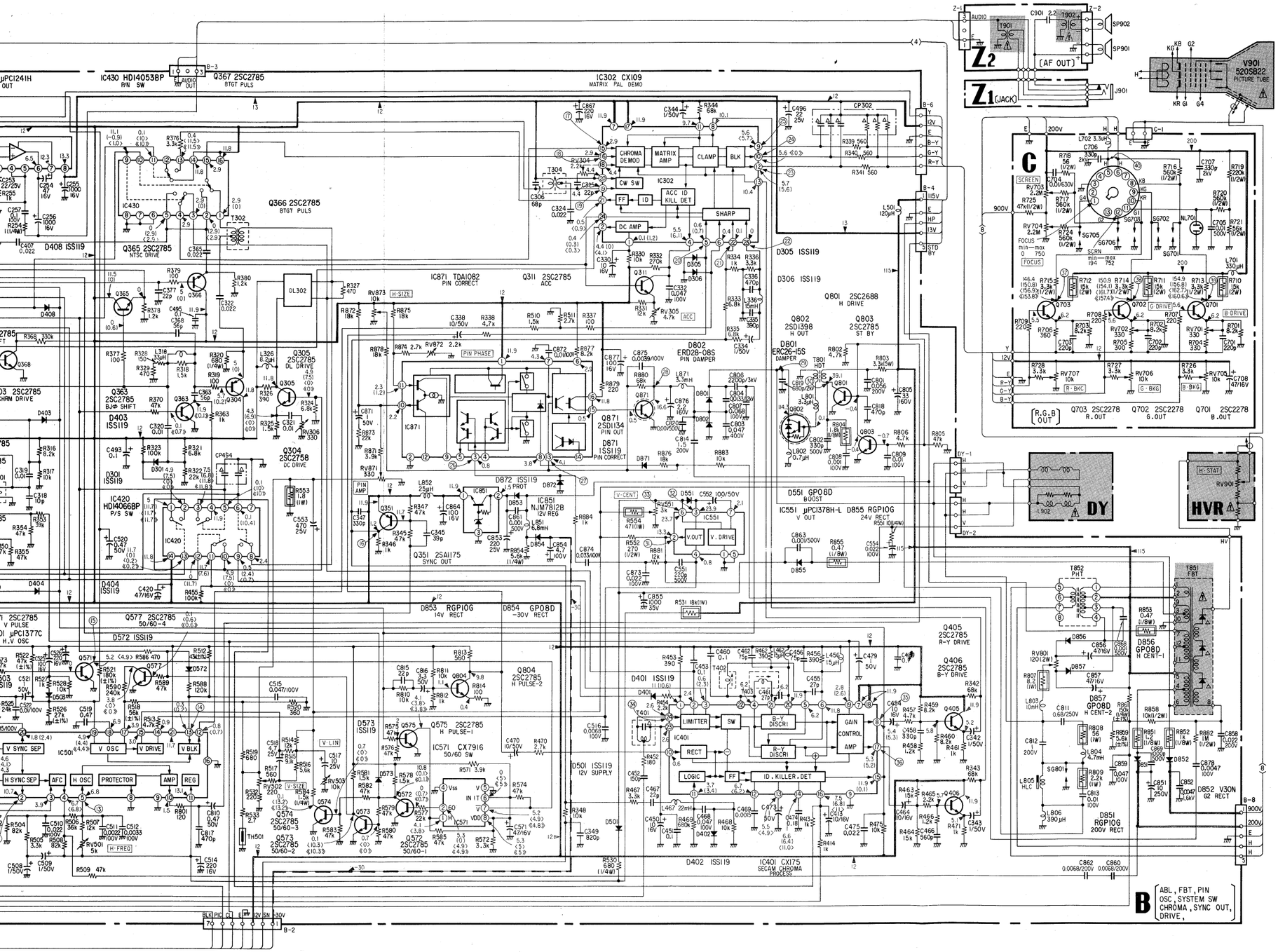
3-2. CIRCUIT BOARDS LOCATION



3-3. SCHEMATIC DIAGRAM



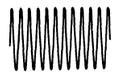
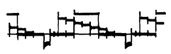
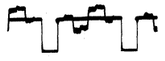
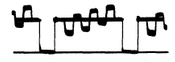
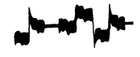
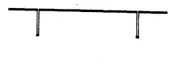
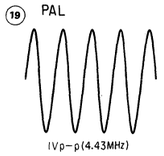
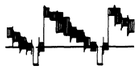
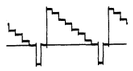
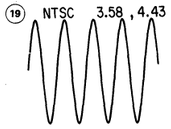
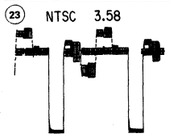
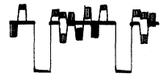
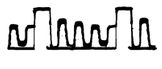
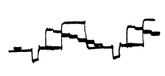
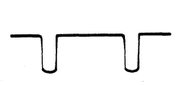
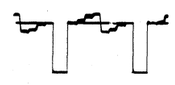
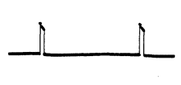
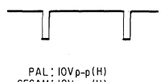
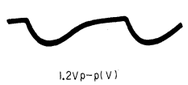
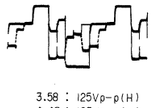

L M N O P Q R S T U V W X Y Z A1 B1
Q307 2SB734 Y DRIVE
Q301 2SC2785 CW OSC
Q407 2SC2785 XIF
Q300 2SK43 4.43 OSC
Q360 2SK43 3.58 OSC
IC251 μPC1241H AF OUT
IC430 HD14053BP P/N SW
Q367 2SC2785 BTGT PULS
IC302 CX109 MATRIX PAL DEMO
Q366 2SC2785 BTGT PULS
Q365 2SC2785 NTSC DRIVE
IC440 HD14069UBP PULS SW
D408 ISS119
IC871 TDA1082 PIN CORRECT
Q311 2SC2785 ACC
D305 ISS119
D306 ISS119
Q801 2SC2688 H DRIVE
Q802 2SD1398 H OUT
Q803 2SC2785 ST BY
D801 ERC26-15S DAMPER
D802 ERD28-08S PIN DAMPER
Q241 DTC124ES 4.5MHz SW
Q201 DTC124ES 5.5MHz SW
Q202 DTC124ES 5.5MHz DSC SW
IC201 CX20015 VIF/SIF
D241 ISS119
Q207 2SA1175 SIGNAL DRIVE
D221 ISS119
Q368 2SC2785 BTΦ SHIFT
Q364 2SC2785 CWΦ SHIFT
IC301 CX108 PAL CHROMA PROCESS
Q303 2SC2785 CHRM DRIVE
Q363 2SC2785 BJΦ SHIFT
D403 ISS119
Q305 2SC2785 DL DRIVE
Q871 2SD1134 PIN OUT
D871 ISS119 PIN CORRECT
Q362 2SC2785 BP SW-2
Q361 2SC2785 BP SW-1
Q304 2SC2758 DC DRIVE
D301 ISS119
IC420 HD14066BP P/S SW
D872 ISS119
IC851 NJM7812B 12V REG
D551 GP08D BOOST
IC551 μPC1378H-L V OUT
D855 RGP10G 24V RECT
D407 ISS119
Q350 2SC2785 BLK
D406 ISS119
Q351 2SA1175 SYNC OUT
Q302 2SC2785 ABL
IC410 HD14066BP TRAP SW
D503 ISS119
D502 ISS119 V SYNC
D404 ISS119
D853 RGP10G 14V RECT
D854 GP08D -30V RECT
IC204 μPC4556C FILTER
D271 ISS119
Q571 2SC2785 V PULSE
IC501 μPC1377C H.V OSC
Q577 2SC2785 50/60-4
D572 ISS119
Q804 2SC2785 H PULSE-2
Q405 2SC2785 R-Y DRIVE
Q406 2SC2785 B-Y DRIVE
D401 ISS119
D573 ISS119
Q575 2SC2785 H PULSE-1
IC571 CX7916 50/60 SW
D501 ISS119 12V SUPPLY
Q574 2SC2785 50/60-3
Q573 2SC2785 50/60-2
Q572 2SC2785 50/60-1
D402 ISS119
IC401 CX175 SECAM CHROMA PROCESS
IC400 TC4025BP STM SW
Q400 2SC2785 SECAM DRIVE
D405 ISS119
D611 ISS119 STOPPER
Q603 2SA639S ECL
D609 GP08D 5V RECT
D608 ERB44-04 13V RECT
Q602 2SC2958 REG DRIVE
T603 SRT
Z2
Z1 (JACK)



Note:

- All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : μμF
- All resistors are in ohms. 1/6W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000 kΩ
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ▭ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- ——— : B+ bus.
- – – – : B– bus.
- Voltages are dc with respect to ground unless otherwise noted.
- All voltage are in V.
  - No Mark : PAL
  - ( ) : SECAM
  - ≪ ≫ : NTSC 4.43
  - < > : NTSC 3.58
- Readings are taken with a 10 MΩ digital multimeter.
- Readings are taken with a color-bar signal input.

3-4. WAVEFORMS

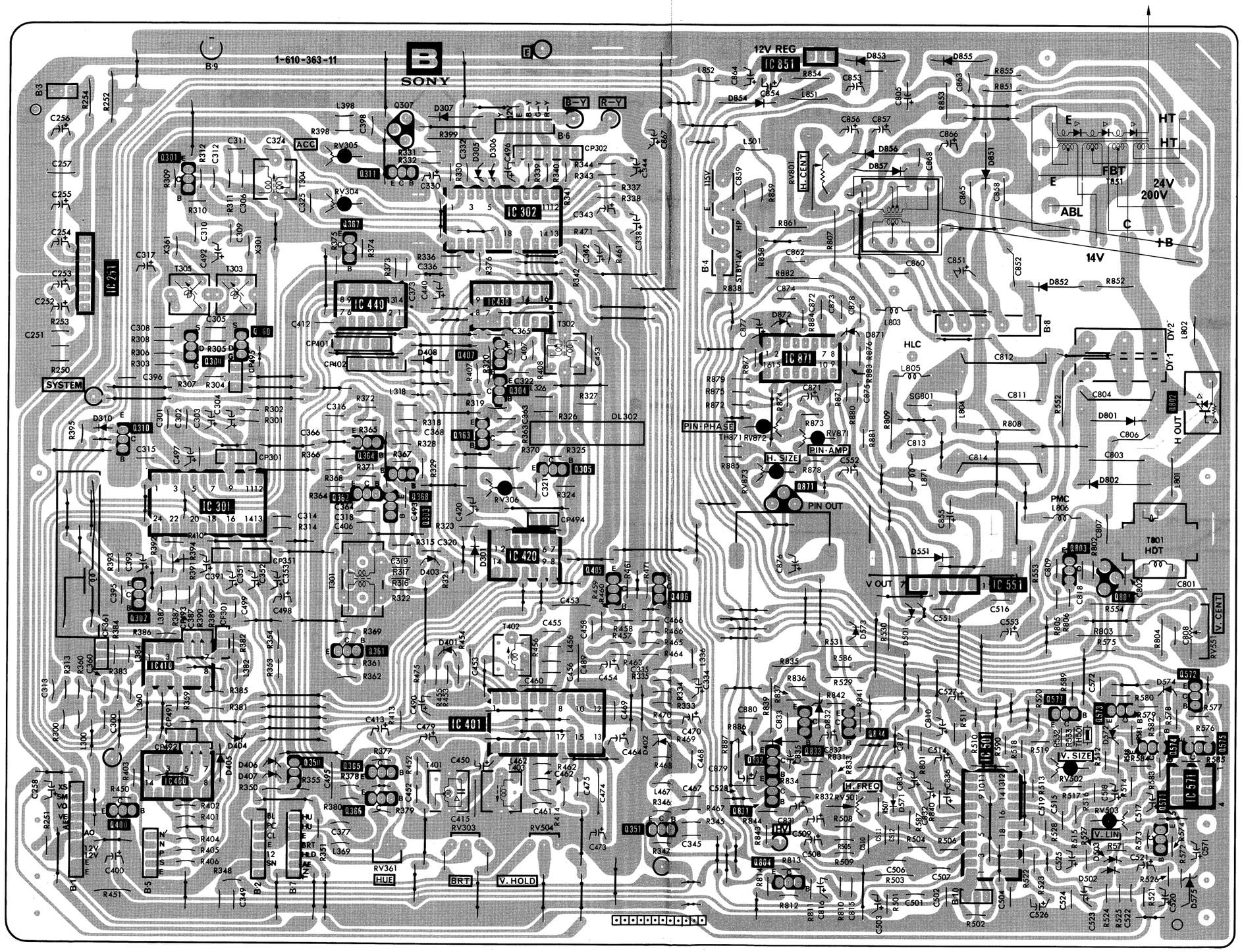
①  3Vp-p(3.58MHz)	⑤ 330Vp-p(H)	⑨ NTSC 3.58, 4.43  3.58 : 1.3Vp-p(H) 4.43 : 0.8Vp-p(H)	⑬ NTSC3.58,PAL : 4.6Vp-p(H) SECAM : 4.4Vp-p(H) NTSC4.43 : 0.4Vp-p(H)	⑱ PAL 0.25Vp-p(H)	㉒ 4Vp-p(H)	㉔ NTSC 3.58,4.43 7Vp-p(H)	㉘ 10Vp-p(V)	㉞ SECAM 1Vp-p(H)	㊳ PAL 90Vp-p(H)	㊵ PAL : 26Vp-p(H) SECAM : 21Vp-p(H) NTSC : 22Vp-p(H)
② 5.5Vp-p(H)	⑥ 3.4Vp-p(H)	⑩ PAL : 0.2Vp-p(H) NTSC3.58 : 0.44Vp-p(H) NTSC4.43 : 0.32Vp-p(H)	⑭ 6Vp-p(V)	⑱ NTSC 3.58, 4.43 3.58 : 0.24Vp-p(H) 4.43 : 0.28Vp-p(H)	㉓ PAL  7.8Vp-p(H)	㉕ PAL  8Vp-p(H)	㉙ 1000Vp-p(H)	㉟ SECAM  1.8Vp-p(H)	㊳ SECAM 110Vp-p(H)	
③ PAL 1.5Vp-p(H)	⑦ PAL NTSC 3.58 4.43 2.8mVp-p(H)	⑪ PAL 1.6Vp-p(H)	⑮  5.5Vp-p(V)	⑲ PAL  1Vp-p(4.43MHz)	㉓ SECAM 8Vp-p(H)	㉕ SECAM 1.7Vp-p(H)	㉚ 94Vp-p(H)	㊱ SECAM 2.5Vp-p(H)	㊳ NTSC 3.58, 4.43 3.58 : 125Vp-p(H) 4.43 : 100Vp-p(H)	
③ SECAM  1.5Vp-p(H)	⑧ PAL : 0.8Vp-p(4.43MHz) NTSC3.58 : 0.9Vp-p(3.58MHz) NTSC4.43 : 0.75Vp-p(4.43MHz)	⑪ SECAM  2.2Vp-p(H)	⑯ 12Vp-p(H)	⑲ NTSC 3.58, 4.43  3.58 : 1.7Vp-p(3.58MHz) 4.43 : 1Vp-p(4.43MHz)	㉓ NTSC 3.58  7.5Vp-p(H)	㉕ NTSC 3.58, 4.43  7.5Vp-p(H)	㉛ 50Vp-p(V)	㊲ PAL 100Vp-p(H)	㊴ PAL  85Vp-p(H)	
③ NTSC 3.58, 4.43 3.58 : 2.6Vp-p(H) 4.43 : 1.9Vp-p(H)	⑨ PAL 0.7Vp-p(H)	⑪ NTSC 3.58, 4.43  3.58 : 1.5Vp-p(H) 4.43 : 1.6Vp-p(H)	⑰ PAL 0.24Vp-p(H)	⑳  1.5Vp-p(H)	㉔ PAL  7.6Vp-p(H)	㉖ 2.3Vp-p(V)	㉜  26Vp-p(V)	㊲ SECAM 130Vp-p(H)	㊴ SECAM 110Vp-p(H)	
④ 140Vp-p(H)	⑨ SECAM 1.1Vp-p(H)	⑫  PAL : 10Vp-p(H) SECAM : 12Vp-p(H) NTSC : 0.25Vp-p(H)	⑰ NTSC 3.58, 4.43 3.58 : 0.24Vp-p(H) 4.43 : 0.28Vp-p(H)	㉑ 1.5Vp-p(H)	㉔ SECAM 6.5Vp-p(H)	㉗ 2Vp-p(V)	㉝  1.2Vp-p(V)	㊲ NTSC 3.58, 4.43  3.58 : 125Vp-p(H) 4.43 : 105Vp-p(H)	㊴ NTSC 3.58, 4.43 3.58 : 105Vp-p(H) 4.43 : 90Vp-p(H)	

3-5. MOUNTING DIAGRAMS

– Conductor Side –

(ABL, FBT, PIN, OSC, SYSTEM SW
CHROMA, SYNC OUT, DRIVE) **B** **B**

– B Board –



IC , Q	D	ADJ
IC851	853,855	
307	307,854	
301		
311	305,306 856,857 851	RV305 RV304
367		RV801
IC302		
IC251		
	852	
IC440 IC430	872	
360,300	871	
IC871 407	408	
304		
802	801	
310	310	RV872
363 364		RV871
305 871	802	RV873
IC301 362,368 303		RV306
IC420	403	
405 406 803	551 301	
IC551 801,302	501	
IC410 361	573	RV551
IC401 572	401 574	
577,573 834,833	832 402 404	
574,575 832,365 350	572 405 406 407	RV502
IC400 IC571 366,831 400,571	571	RV501 RV503
IC501 351 804	503,502	RV303 RV504
	575	RV361
IC , Q	D	ADJ

TUNER, SYSTEM SW
BAND SW, SIG DRIVE
SIF, VIF, TRAP

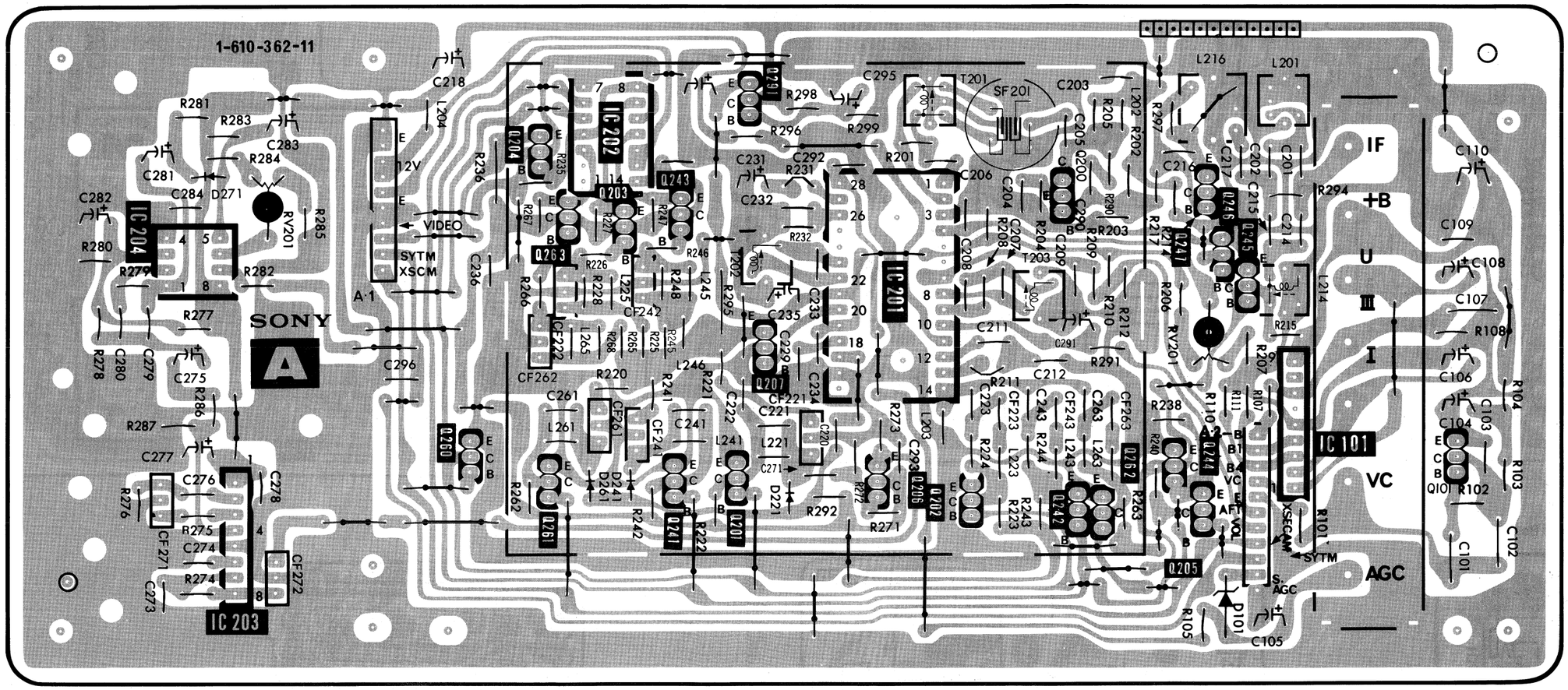
A **A**

A B C D E F G H I J K L M N O

1 2 3 4 5 6 7 8 9 10

— A Board —

IC	IC204 260 204 IC 202 243 291 IC201 200 244 IC101 101 IC203 263 203 241 201 206 202 242 262 247 246 261 207 205 245,244	IC
Q		Q
D	271 261 241 221 101	D
ADJ	201 201	ADJ



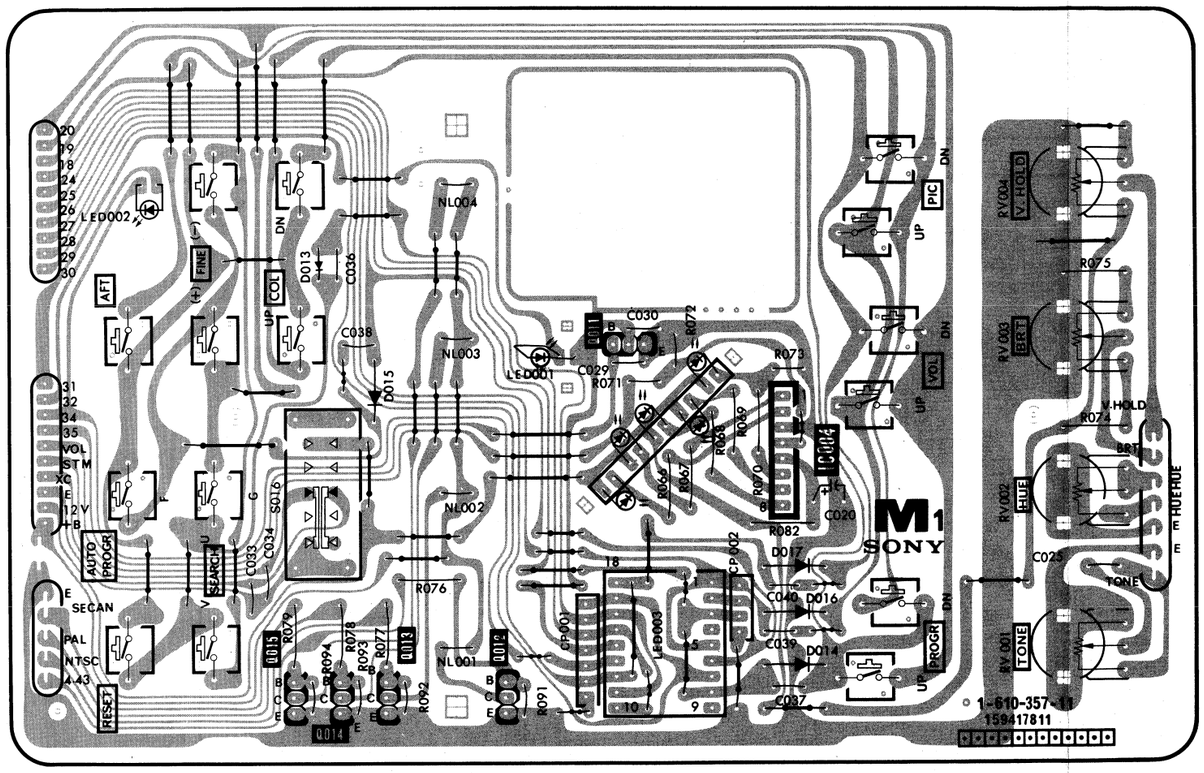
[BAND INDICATOR
CH.INDICATOR, AFT
CUSTOMER CONTROL] **M1** [JACK] **Z1** [AFOUT] **Z2**

M1 **M2** [REMOCON RECIEVE
PROGRAM MEMORY] **N** [REMOCON
SIGNAL AMP]

A B C D E F G H I J K L M N O

1 2 3 4 5 6 7 8 9 10

– M1 Board –

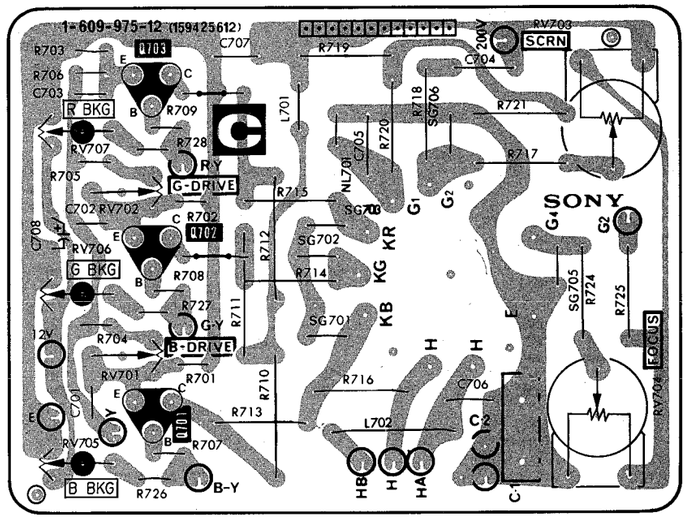


[R·G·B OUT] **C** [POWER SUPPLY PROTECT REG] **F**

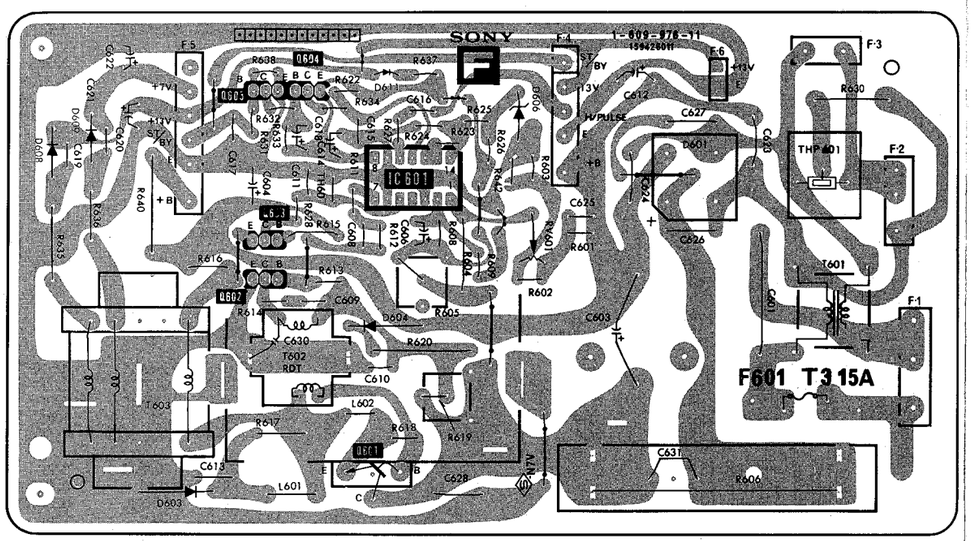
A | B | C | D | E | F | G

1 2 3 4 5 6 7 8 9

— C Board —

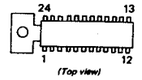


— F Board —



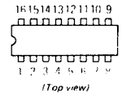
3-6. SEMICONDUCTORS

CX108
CX109
CX175

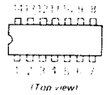


CX7916
μPC4556C

HD14053BP
TC4053BP
TDA1082

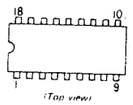


M58653P
HD14066BP
HD14069BP
TC4025BP
TC4066BP
μPC1394C



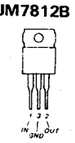
LA7920

M50119P

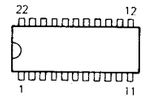


M51903L
μPC1373H
μPC1391H

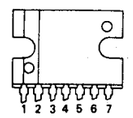
NJM7812B



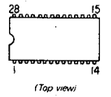
μPC1377C



μPC1378H-L

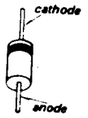


CX20015

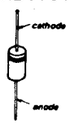


1SS119
1SS148

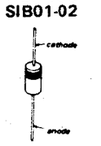
1SS133
ERD28-08S
RD3.9EL1
RD30EL3
RD5.6EL3
RD6.2EN2



ERB12-02RK
ERB44-04

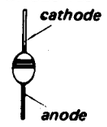


ERC24-06S
ERC25-06S
RGP-10G
SIB01-02

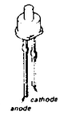


GH3F
GP08D
U05G

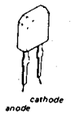
ERC26-15S



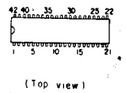
GL-2ARI



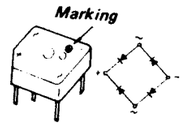
PH302B



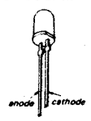
CX519-004P



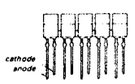
S3WB60Z
Marking



SE303AV



SLP152B-50



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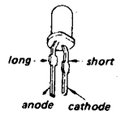

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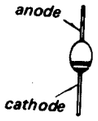

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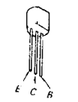
2SC945
2SC1815
2SC2551

2SA773
2SC1474
2SD788



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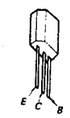

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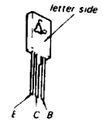

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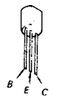

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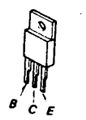
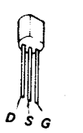
2SD1134



2SK107

2SK43



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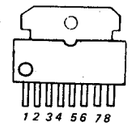

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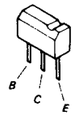
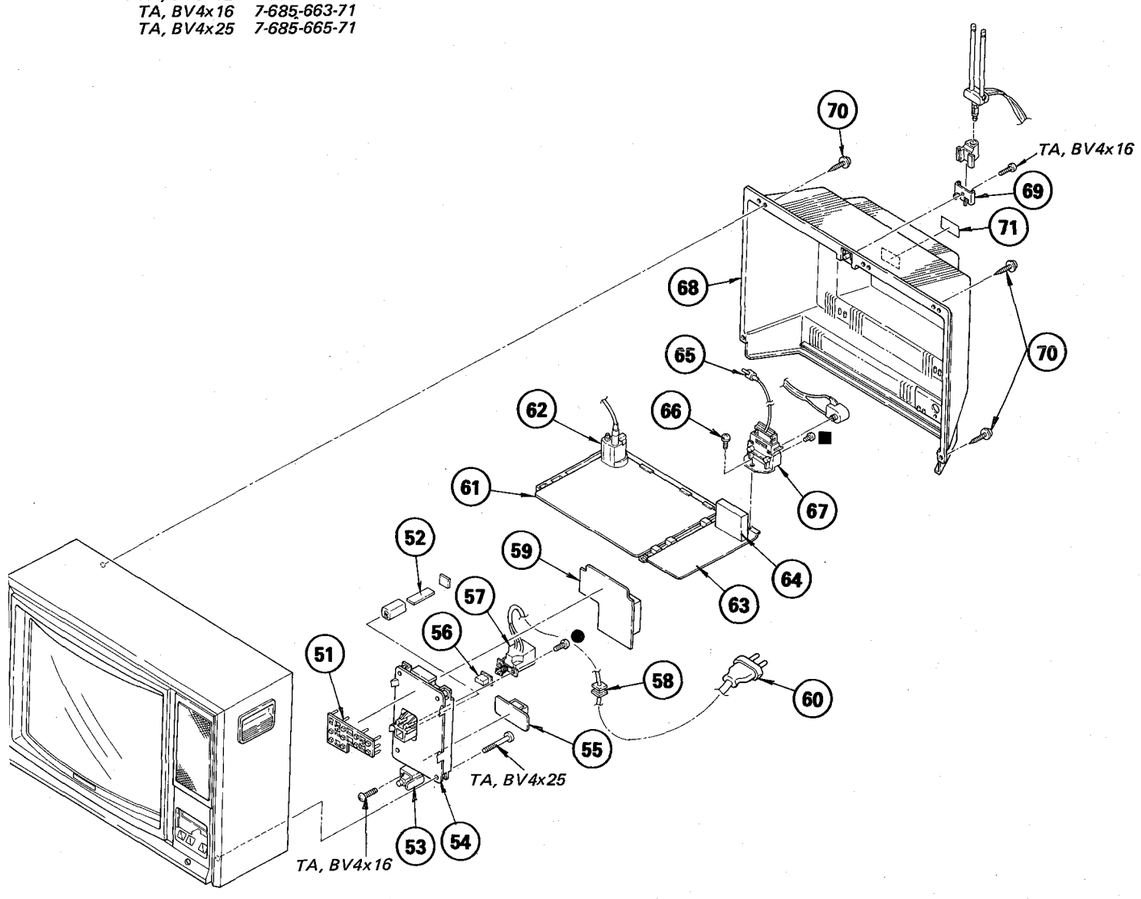


(2) CHASSIS

■ : TA, BV3x8 7-685-646-71
● : TA, BV3x12 7-685-648-71
TA, BV4x16 7-685-663-71
TA, BV4x25 7-685-665-71



No.	Part No.	Description	Remark
51	4-367-318-00	BUTTON, MULTI	
52	●:1-606-794-00	N BOARD	
53	●:1-610-638-00	Z1 BOARD	
54	●:1-610-357-00	M1 BOARD	
55	●:1-610-639-00	Z2 BOARD	
56	4-367-303-00	BUTTON, POWER	
57	⚠1-553-225-00	SWITCH, PUSH	
58	⚠ 4-327-107-00	HOLDER, CORD	
59	●:A-1301-484-A	M2 BOARD,COMPLETE	
60	⚠1-551-427-11	CORD, POWER, EULO PLUG	
61	●:A-1135-220-A	B BOARD, COMPLETE	

No.	Part No.	Description	Remark
62	⚠1-439-280-00	TRANSFORMER ASSY, FLYBACK	
63	●:A-1295-734-A	A BOARD, COMPLETE	
64	⚠1-463-389-00	TUNER BT-887	
65	●:1-551-383-00	CABLE, WITH PIN	
66	4-302-428-00	HEAD, WASHER, TAPPING SCREW	
67	⚠1-536-494-00	ANT TERMINAL ASSY	
68	X-4367-302-0	COVER ASSY, BACK	69
69	2-076-703-00	BRACKET	
70	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)	
71	●:4-367-302-01	LABEL, MODEL NUMBER	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

B

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

When indicating parts by reference number, please include the board name.

Ref.No	Part No.	Description	Remark
	●:A-1135-220-A	B BOARD, COMPLETE	
		**********	
	3-701-833-01	HEAD, WASHER, TAPPING SCREW	
	●:4-323-833-00	HEAT SINK, PIN OUT	
	●:4-367-226-00	HOLDER, H OUT	
		CONNECTOR	
B1	●:1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P	
B2	●:1-560-127-00	PLUG, CONNECTOR (2.5MM) 7P	
B3	●:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
B4	●:1-508-767-00	5P PLUG	
B5	●:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P	
B6	●:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P	
B7	●:1-560-127-00	PLUG, CONNECTOR (2.5MM PITCH)	
B8	●:1-508-767-00	5P PLUG	
B9	●:1-508-784-00	1P PLUG	
B10	●:1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)	
		CAPACITOR	
C251	1-102-123-00	CERAMIC 0.0033MF 10% 50V	
C253	1-123-330-00	ELECT 22MF 20% 25V	
C254	1-123-332-00	ELECT 47MF 20% 16V	
C255	1-123-324-00	ELECT 1000MF 20% 16V	
C256	1-123-324-00	ELECT 1000MF 20% 16V	
C257	1-108-389-00	MYLAR 0.1MF 10% 100V	
C258	1-123-380-00	ELECT 1MF 20% 50V	
C300	1-102-530-00	CERAMIC 120PF 5% 50V	
C301	1-108-375-00	MYLAR 0.0068MF 10% 100V	
C302	1-108-375-00	MYLAR 0.0068MF 10% 100V	
C303	1-123-379-00	ELECT 0.47MF 20% 50V	
C304	1-123-379-00	ELECT 0.47MF 20% 50V	
C305	1-102-762-00	CERAMIC 82PF 5% 50V	
C306	1-102-676-00	CERAMIC 68PF 5% 50V	
C307	1-102-527-00	CERAMIC 82PF 5% 50V	
C308	1-102-765-00	CERAMIC 120PF 5% 50V	
C309	1-102-513-00	CERAMIC 18PF 5% 50V	
C310	1-102-512-00	CERAMIC 16PF 5% 50V	
C311	1-102-108-00	CERAMIC 150PF 10% 50V	
C312	1-101-004-00	CERAMIC 0.01MF 50V	
C313	1-101-004-00	CERAMIC 0.01MF 50V	
C314	1-102-889-00	CERAMIC 39PF 5% 50V	
C315	1-108-385-00	MYLAR 0.047MF 10% 100V	
C316	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C317	1-123-332-00	ELECT 47MF 20% 25V	
C318	1-102-858-00	CERAMIC 10PF 0.5PF 50V	
C319	1-101-004-00	CERAMIC 0.01MF 50V	
C320	1-101-004-00	CERAMIC 0.01MF 50V	
C321	1-101-004-00	CERAMIC 0.01MF 50V	
C322	1-101-005-00	CERAMIC 0.022MF 50V	
C324	1-101-005-00	CERAMIC 0.022MF 50V	
C325	1-102-892-00	CERAMIC 22PF 5% 50V	
C330	1-123-356-00	ELECT 10MF 20% 16V	
C332	1-108-385-00	MYLAR 0.047MF 10% 100V	
C334	1-123-380-00	ELECT 1MF 20% 50V	

Ref.No	Part No.	Description	Remark
C335	1-102-113-00	CERAMIC 390PF 10% 50V	
C336	1-102-114-00	CERAMIC 470PF 10% 50V	
C338	1-123-356-00	ELECT 10MF 20% 50V	
C342	1-123-380-00	ELECT 1MF 20% 50V	
C343	1-123-380-00	ELECT 1MF 20% 50V	
C344	1-123-380-00	ELECT 1MF 20% 50V	
C345	1-102-965-00	CERAMIC 39PF 10% 50V	
C347	1-102-112-00	CERAMIC 330PF 10% 50V	
C349	1-102-117-00	CERAMIC 820PF 10% 50V	
C351	1-123-380-00	ELECT 1MF 20% 50V	
C352	1-123-380-00	ELECT 1MF 20% 50V	
C353	1-123-380-00	ELECT 1MF 20% 50V	
C360	1-102-512-00	CERAMIC 16PF 5% 50V	
C363	1-102-523-00	CERAMIC 56PF 5% 50V	
C364	1-102-668-00	CERAMIC 15PF 5% 50V	
C365	1-101-005-00	CERAMIC 0.022MF 50V	
C366	1-102-852-00	CERAMIC 47PF 5% 50V	
C368	1-102-523-00	CERAMIC 56PF 5% 50V	
C373	1-102-106-00	CERAMIC 100PF 10% 50V	
C377	1-102-892-00	CERAMIC 22PF 5% 50V	
C387	1-102-529-00	CERAMIC 100PF 5% 50V	
C391	1-123-331-00	ELECT 33MF 20% 25V	
C393	1-123-356-00	ELECT 10MF 20% 16V	
C395	1-101-005-00	CERAMIC 0.022MF 50V	
C396	1-161-051-00	CERAMIC 0.01MF 10% 50V	
C400	1-123-321-00	ELECT 220MF 20% 16V	
C406	1-101-005-00	CERAMIC 0.022MF 50V	
C407	1-101-005-00	CERAMIC 0.022MF 50V	
C412	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C413	1-123-356-00	ELECT 10MF 20% 16V	
C420	1-123-332-00	ELECT 47MF 20% 16V	
C440	1-123-332-00	ELECT 47MF 20% 16V	
C450	1-123-356-00	ELECT 10MF 20% 16V	
C451	1-161-063-00	CERAMIC 0.1MF 10% 50V	
C452	1-102-888-00	CERAMIC 150PF 5% 50V	
C453	1-161-063-00	CERAMIC 0.1MF 10% 50V	
C454	1-123-356-00	ELECT 10MF 20% 16V	
C455	1-102-806-00	CERAMIC 27PF 5% 50V	
C456	1-102-526-00	CERAMIC 75PF 5% 50V	
C458	1-102-112-00	CERAMIC 330PF 10% 50V	
C460	1-161-063-00	CERAMIC 0.1MF 10% 50V	
C461	1-102-722-00	CERAMIC 27PF 5% 50V	
C462	1-102-526-00	CERAMIC 75PF 5% 50V	
C464	1-123-356-00	ELECT 10MF 20% 16V	
C466	1-102-115-00	CERAMIC 560PF 10% 50V	
C467	1-102-527-00	CERAMIC 82PF 5% 50V	
C468	1-108-385-00	MYLAR 0.047MF 10% 100V	
C469	1-102-119-00	CERAMIC 0.0015MF 10% 50V	
C470	1-123-356-00	ELECT 10MF 20% 50V	
C473	1-123-380-00	ELECT 1MF 20% 50V	
C474	1-130-498-00	MYLAR 0.18MF 10% 50V	
C475	1-101-005-00	CERAMIC 0.022MF 50V	
C479	1-123-380-00	ELECT 1MF 20% 50V	

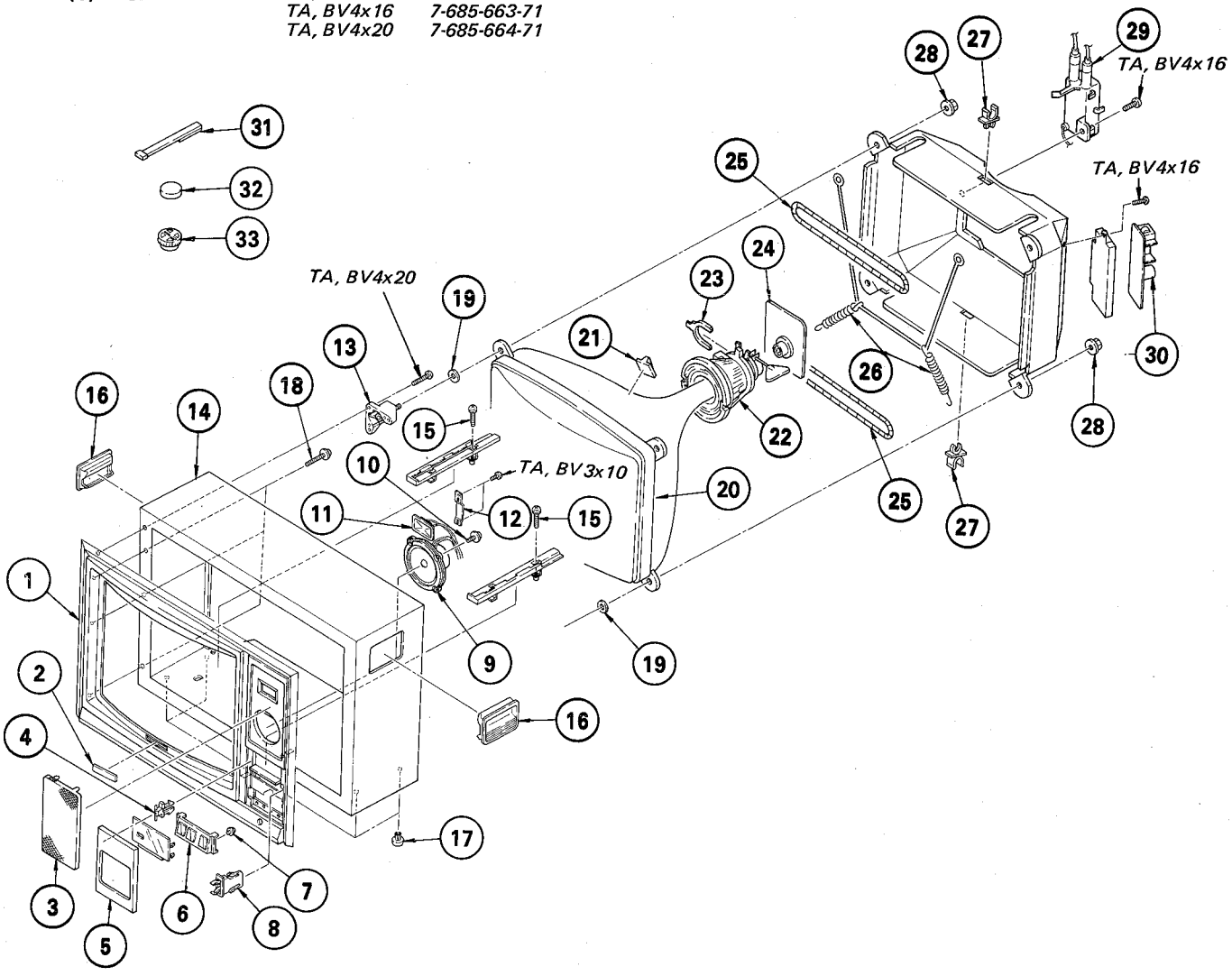
SECTION 4
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- As to the part numbered with E-, refer to the electrical parts list.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

(1) CABINET

TA, BV3x10	*7-685-647-71*
TA, BV4x16	*7-685-663-71*
TA, BV4x20	*7-685-664-71*

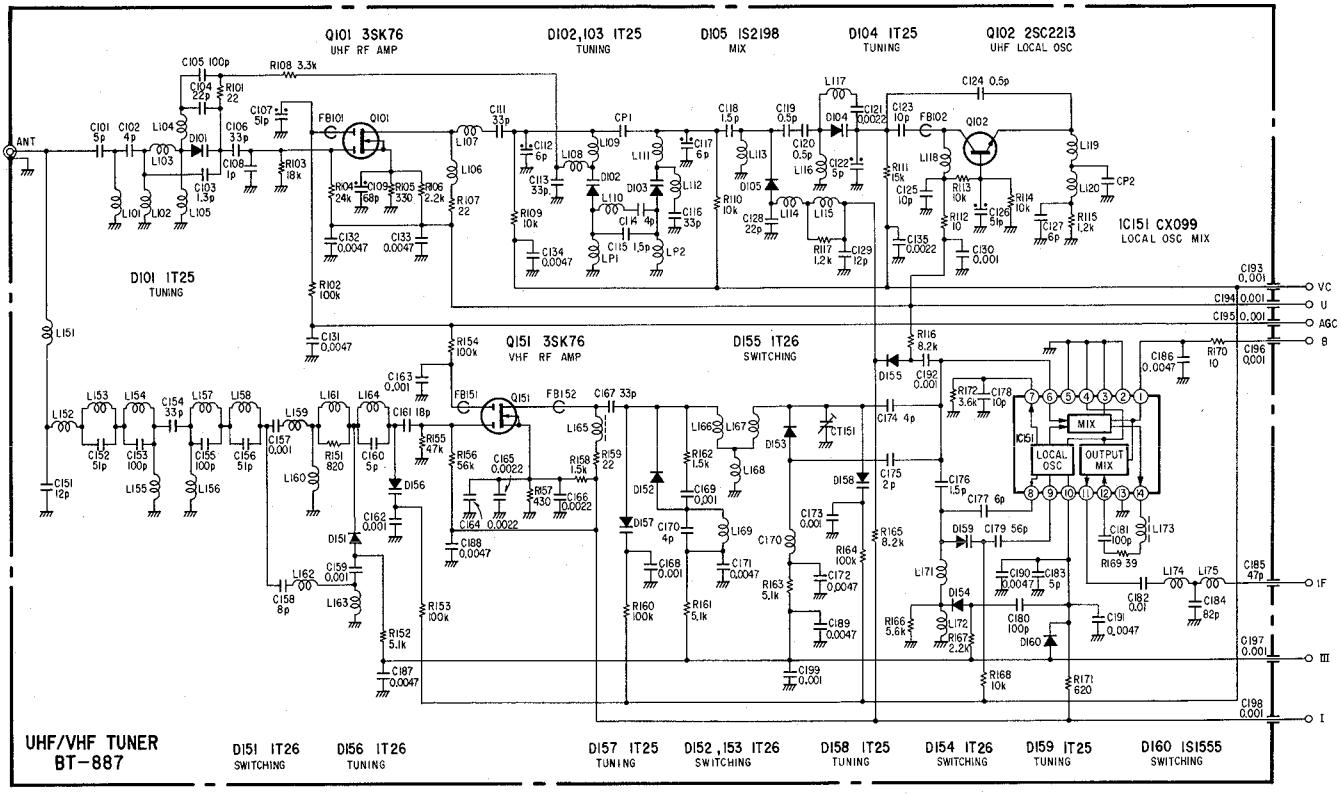


No.	Part No.	Description	Remark
1	X-4367-306-2	BEZEL ASSY	2-8
2	3-701-912-00	EMBLEM, SONY, (LARGE)	
3	4-367-306-00	PLATE, ORNAMENTAL, BEZEL	
4	3-703-035-11	SHAFT, LID	
5	X-4367-301-0	DOOR ASSY	
6	X-4367-305-1	BUTTON ASSY	7
7	4-365-220-00	STOPPER, BUTTON	
8	4-352-034-00	CATCHER, PUSH	
9	1-503-080-00	SPEAKER	
10	4-302-934-00	HEAD, WASHER, TAPPING SCREW	
11	8-927-129-00	SPEAKER UNIT (040T004)	
12	♦:4-367-304-00	BRACKET, SPEAKER RETAINER	
13	X-4346-705-0	BRACKET ASSY, CRT	
14	X-4367-303-0	CABINET ASSY	
15	4-304-494-11	SCREW, TAPPING, +PW4X16	15-17
16	4-329-216-00	HANDLE	
17	X-3701-047-1	FOOT ASSY	

No.	Part No.	Description	Remark
18	4-304-851-00	SCREW (+P 4X25), TAPPING	
19	4-305-312-00	WASHER, CRT POSITION	
20	⚠.8-738-704-05	CRT 520SB22	
21	3-703-003-00	SPACER, DY	
22	⚠.1-451-204-00	DEFLECTION YOKE (SY-108B)	
23	1-452-146-00	MAGNET, BMC	
24	♦:A-1330-456-A	C BOARD, COMPLETE	
25	⚠.1-425-901-31	COIL, DEGAUSS	
26	4-303-774-XX	SPRING	
27	♦:4-322-922-00	HOLDER, COIL, DEGAUSSER	
28	4-306-034-00	FLANGE NUT, (B) 5MM	
29	⚠.1-228-253-00	RESISTOR ASSY, HIGH-VOLTAGE	
30	♦:A-1245-196-A	F BOARD, COMPLETE	
31	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
32	1-452-032-00	MAGNET, DISK; 10MM ø	
33	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ø	

3-7. VHF/UHF TUNER SCHEMATIC DIAGRAM

- **BT-887**



B

Ref.No	Part No.	Description				Remark
C489	1-161-063-00	CERAMIC	0.1MF	10%	50V	
C490	1-123-321-00	ELECT	220MF	20%	16V	
C492	1-123-332-00	ELECT	47MF	20%	16V	
C493	1-161-063-00	CERAMIC	0.1MF	10%	50V	
C495	1-161-063-00	CERAMIC	0.1MF	10%	50V	
C496	1-123-330-00	ELECT	22MF	20%	25V	
C497	1-123-332-00	ELECT	47MF	20%	16V	
C498	1-123-332-00	ELECT	47MF	20%	16V	
C499	1-101-005-00	CERAMIC	0.022MF		50V	
C501	1-108-385-00	MYLAR	0.047MF	10%	100V	
C502	1-108-365-00	MYLAR	0.001MF	10%	100V	
C503	1-123-380-00	ELECT	1MF	20%	50V	
C504	1-108-367-00	MYLAR	0.0015MF	10%	100V	
C506	1-108-377-00	MYLAR	0.01MF	10%	100V	
C507	1-108-381-00	MYLAR	0.022MF	10%	100V	
C508	1-123-380-00	ELECT	1MF	20%	50V	
C509	1-123-380-00	ELECT	1MF	20%	50V	
C510	1-108-381-00	MYLAR	0.022MF	10%	100V	
C511	1-106-180-00	MYLAR	0.0022MF	5%	100V	
C512	1-129-794-00	FILM	0.0033MF	5%	100V	
C514	1-123-321-00	ELECT	220MF	20%	16V	
C515	1-106-212-00	MYLAR	0.047MF	5%	100V	
C516	1-108-375-00	MYLAR	0.0068MF	10%	100V	
C517	1-123-356-00	ELECT	10MF	20%	25V	
C518	1-131-357-00	TANTALUM	4.7MF	10%	25V	
C519	1-130-640-00	FILM	0.47MF	5%	50V	
C520	1-123-379-00	ELECT	0.47MF	20%	50V	
C521	1-123-380-00	ELECT	1MF	20%	50V	
C522	1-108-377-00	MYLAR	0.01MF	10%	100V	
C523	1-123-380-00	ELECT	1MF	20%	50V	
C524	1-108-384-00	MYLAR	0.039MF	10%	100V	
C525	1-123-333-00	ELECT	100MF	20%	16V	
C526	1-123-321-00	ELECT	220MF	20%	16V	
C527	1-123-333-00	ELECT	100MF	20%	16V	
C551	1-102-244-00	CERAMIC	220PF	10%	500V	
C552	1-123-360-00	ELECT	100MF	20%	50V	
C553	1-123-336-00	ELECT	470MF	20%	25V	
C554	1-108-381-00	MYLAR	0.022MF	10%	100V	
C571	1-123-332-00	ELECT	47MF	20%	16V	
C801	1-108-430-00	MYLAR	0.056MF	10%	200V	
C802	1-102-030-00	CERAMIC	330PF	10%	500V	
C803	1-130-959-00	FILM	0.047MF	5%	400V	
C804	1-136-099-00	FILM	0.0133MF	3%	2KV	
C805	1-123-024-00	ELECT	33MF		160V	
C806	1-161-961-00	CERAMIC	0.0022MF	10%	3KV	
C807	1-108-387-00	MYLAR	0.068MF	10%	100V	
C808	1-108-365-00	MYLAR	0.001MF	10%	100V	
C809	1-108-377-00	MYLAR	0.01MF	10%	100V	
C810	1-123-379-00	ELECT	0.47MF	20%	50V	
C811	1-136-184-00	MYLAR	0.68MF	10%	250V	
C812	1-136-116-00	FILM	1MF	5%	200V	
C813	1-108-377-00	MYLAR	0.01MF	10%	100V	
C814	1-136-179-00	FILM	1.5MF	5%	200V	

Ref.No	Part No.	Description				Remark
C815	1-102-959-00	CERAMIC	22PF	10%	50V	
C816	1-123-382-00	ELECT	3.3MF	20%	50V	
C817	1-102-114-00	CERAMIC	470PF	10%	50V	
C818	1-102-114-00	CERAMIC	470PF	10%	50V	
C819	1-162-116-00	CERAMIC	680PF	10%	2KV	
C820	1-102-038-00	CERAMIC	0.001MF		500V	
C851	1-123-254-00	ELECT	10MF		250V	
C852	1-102-223-00	CERAMIC	0.0047MF	20%	1.6KV	
C853	1-123-334-00	ELECT	220MF	20%	25V	
C854	1-123-527-00	ELECT	4.7MF	20%	100V	
C855	1-123-508-00	ELECT	1000MF	20%	35V	
C856	1-123-332-00	ELECT	47MF	20%	16V	
C857	1-123-332-00	ELECT	47MF	20%	16V	
C858	1-108-425-00	MYLAR	0.022MF	10%	200V	
C859	1-108-385-00	MYLAR	0.047MF	10%	100V	
C860	1-108-419-00	MYLAR	0.0068MF	10%	200V	
C861	1-102-038-00	CERAMIC	0.001MF		500V	
C862	1-108-419-00	MYLAR	0.0068MF	10%	200V	
C863	1-102-038-00	CERAMIC	0.001MF		500V	
C864	1-123-333-00	ELECT	100MF	20%	16V	
C867	1-123-321-00	ELECT	220MF	20%	16V	
C868	1-102-038-00	CERAMIC	0.001MF		500V	
C869	1-102-038-00	CERAMIC	0.001MF		500V	
C871	1-123-380-00	ELECT	1MF	20%	50V	
C872	1-108-377-00	MYLAR	0.01MF	10%	100V	
C873	1-108-381-00	MYLAR	0.022MF	10%	100V	
C874	1-108-383-00	MYLAR	0.033MF	10%	100V	
C875	1-108-372-00	MYLAR	0.0039MF	10%	100V	
C876	1-123-267-00	ELECT	2.2MF	20%	160V	
C877	1-123-333-00	ELECT	100MF	20%	16V	
C878	1-108-373-00	MYLAR	0.0047MF	10%	100V	

FILTER

CF301	1-409-338-00	TRAP, CERAMIC (4.328MHZ)	
CF361	1-409-344-00	CERAMIC TRAP 3.58MHZ	

DIODE

D301	8-719-911-19	DIODE 1SS119	
D305	8-719-911-19	DIODE 1SS119	
D306	8-719-911-19	DIODE 1SS119	
D307	8-719-911-55	DIODE U05G	
D401	8-719-911-19	DIODE 1SS119	
D402	8-719-911-19	DIODE 1SS119	
D403	8-719-911-19	DIODE 1SS119	
D404	8-719-911-19	DIODE 1SS119	
D405	8-719-911-19	DIODE 1SS119	
D406	8-719-911-19	DIODE 1SS119	
D407	8-719-911-19	DIODE 1SS119	
D408	8-719-911-19	DIODE 1SS119	
D501	8-719-911-19	DIODE 1SS119	
D502	8-719-911-19	DIODE 1SS119	
D503	8-719-911-19	DIODE 1SS119	

B

Ref.No	Part No.	Description	Remark
D551	8-719-911-55	DIODE U05G	
D572	8-719-911-19	DIODE 1SS119	
D573	8-719-911-19	DIODE 1SS119	
D801	8-719-305-15	DIODE GH3F	
D802	8-719-928-08	DIODE ERD28-08	
D851	8-719-924-06	DIODE ERC24-06S	
D852	8-719-903-09	DIODE V30N	
D853	8-719-924-06	DIODE ERC24-06S	
D854	8-719-911-55	DIODE U05G	
D855	8-719-924-06	DIODE ERC24-06S	
D856	8-719-911-55	DIODE U05G	
D857	8-719-911-55	DIODE U05G	
D871	8-719-911-19	DIODE 1SS119	
D872	8-719-911-19	DIODE 1SS119	

DELAY LINE

DL301	1-415-088-00	Y DELAY LINE	
DL302	1-415-122-31	DELAY LINE	

CONNECTOR

DY1	♦:1-506-348-XX	3P PLUG (L)	
DY2	♦:1-506-348-XX	3P PLUG (L)	

IC

IC251	8-759-101-77	IC UPC1241H	
IC301	8-751-080-00	IC CX108	
IC302	8-751-090-00	IC CX109	
IC400	8-759-240-25	IC TC4025BP	
IC401	8-751-750-00	IC CX175	
IC410	8-759-240-66	IC TC4066BP	
IC420	8-759-240-66	IC TC4066BP	
IC430	8-759-240-53	IC TC4053BP	
IC440	8-759-240-69	IC TC4069UBP	
IC501	8-759-100-60	IC UPC1377C	
IC551	8-759-113-78	IC UPC1378H-L	
IC571	8-759-979-16	IC CX7916	
IC851	8-759-700-06	IC NJM7812B	
	♦:4-367-227-00	HOLDER, REGULATOR OUT, IC851	
IC871	8-759-905-39	IC TDA1082	

COIL

L300	1-408-601-00	MICRO INDUCTOR 6.8UH	
L318	1-408-609-00	MICRO INDUCTOR 33UH	
L326	1-408-602-00	MICRO INDUCTOR 8.2UH	
L336	1-407-506-00	MICRO INDUCTOR 15MMH	
L360	1-408-614-00	MICRO INDUCTOR 82UH	
L369	1-408-607-00	MICRO INDUCTOR 22UH	
L382	1-408-611-00	MICRO INDUCTOR 47UH	
L384	1-408-613-00	MICRO INDUCTOR 68UH	
L387	1-408-615-00	MICRO INDUCTOR 100UH	
L398	1-408-612-00	MICRO INDUCTOR 56UH	
L456	1-408-605-00	MICRO INDUCTOR 15UH	
L462	1-408-605-00	MICRO INDUCTOR 15UH	

Ref.No	Part No.	Description	Remark
L467	1-407-210-XX	MICRO INDUCTOR 22MMH	
L501	1-459-215-00	CORE COIL 120UH	
L801	1-408-225-00	MICRO INDUCTOR 3.3UH	
L802	1-407-365-00	COIL, CHOKE 0.7UH	
L803	1-459-104-00	COIL, DUST CORE	
L804	1-408-239-00	MICRO INDUCTOR 4.7MMH	
L805	1-459-241-00	COIL, HORIZONTAL LINIALITY	
L806	1-459-330-00	COIL (WITH CORE) 390UH	
L851	1-408-240-00	MICRO INDUCTOR 6.8MMH	
L852	1-421-013-00	COIL, (HOLIZONTAL CHOKE) 25MH	
L871	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE 3.3MMH	

TRANSISTOR

Q300	8-723-304-00	TRANSISTOR 2SK43-4	
Q301	8-729-178-54	TRANSISTOR 2SC2785	
Q302	8-729-178-54	TRANSISTOR 2SC2785	
Q303	8-729-178-54	TRANSISTOR 2SC2785	
Q304	8-729-178-54	TRANSISTOR 2SC2785	
Q305	8-729-178-54	TRANSISTOR 2SC2785	
Q307	8-729-103-43	TRANSISTOR 2SB734	
Q311	8-729-178-54	TRANSISTOR 2SC2785	
Q350	8-729-178-54	TRANSISTOR 2SC2785	
Q351	8-729-117-54	TRANSISTOR 2SA1175	
Q360	8-723-304-00	TRANSISTOR 2SK43-4	
Q361	8-729-178-54	TRANSISTOR 2SC2785	
Q362	8-729-178-54	TRANSISTOR 2SC2785	
Q363	8-729-178-54	TRANSISTOR 2SC2785	
Q364	8-729-178-54	TRANSISTOR 2SC2785	
Q365	8-729-178-54	TRANSISTOR 2SC2785	
Q366	8-729-178-54	TRANSISTOR 2SC2785	
Q367	8-729-178-54	TRANSISTOR 2SC2785	
Q368	8-729-178-54	TRANSISTOR 2SC2785	
Q400	8-729-178-54	TRANSISTOR 2SC2785	
Q405	8-729-178-54	TRANSISTOR 2SC2785	
Q406	8-729-178-54	TRANSISTOR 2SC2785	
Q407	8-729-178-54	TRANSISTOR 2SC2785	
Q571	8-729-178-54	TRANSISTOR 2SC2785	
Q572	8-729-178-54	TRANSISTOR 2SC2785	
Q573	8-729-178-54	TRANSISTOR 2SC2785	
Q574	8-729-178-54	TRANSISTOR 2SC2785	
Q575	8-729-178-54	TRANSISTOR 2SC2785	
Q577	8-729-178-54	TRANSISTOR 2SC2785	
Q801	8-729-168-82	TRANSISTOR 2SC2688	
Q802	8-729-800-87	TRANSISTOR 2SD1398	
	4-363-414-00	SPACER, MICA, Q802	
Q803	8-729-178-54	TRANSISTOR 2SC2785	
Q804	8-729-178-54	TRANSISTOR 2SC2785	
Q871	8-729-313-42	TRANSISTOR 2SD1134	

RESISTOR

R251	1-247-855-00	CARBON	10K	5%	1/6W
R253	1-247-831-00	CARBON	1K	5%	1/6W
R254	1-246-401-00	CARBON	1	5%	1/4W

Ref.No	Part No.	Description				Remark
R300	1-247-809-00	CARBON	120	5%	1/6W	
R301	1-247-843-00	CARBON	3.3K	5%	1/6W	
R302	1-247-843-00	CARBON	3.3K	5%	1/6W	
R303	1-247-879-00	CARBON	100K	5%	1/6W	
R304	1-247-867-00	CARBON	33K	5%	1/6W	
R305	1-247-857-00	CARBON	12K	5%	1/6W	
R306	1-247-879-00	CARBON	100K	5%	1/6W	
R307	1-247-867-00	CARBON	33K	5%	1/6W	
R308	1-247-857-00	CARBON	12K	5%	1/6W	
R309	1-247-855-00	CARBON	10K	5%	1/6W	
R310	1-247-839-00	CARBON	2.2K	5%	1/6W	
R311	1-247-817-00	CARBON	270	5%	1/6W	
R312	1-247-813-00	CARBON	180	5%	1/6W	
R313	1-247-831-00	CARBON	1K	5%	1/6W	
R314	1-247-839-00	CARBON	2.2K	5%	1/6W	
R315	1-247-807-00	CARBON	100	5%	1/6W	
R316	1-247-853-00	CARBON	8.2K	5%	1/6W	
R317	1-247-855-00	CARBON	10K	5%	1/6W	
R318	1-247-835-00	CARBON	1.5K	5%	1/6W	
R319	1-247-807-00	CARBON	100	5%	1/6W	
R320	1-246-469-00	CARBON	680	5%	1/4W	
R321	1-247-851-00	CARBON	6.8K	5%	1/6W	
R322	1-247-863-00	CARBON	22K	5%	1/6W	
R323	1-247-879-00	CARBON	100K	5%	1/6W	
R324	1-247-851-00	CARBON	6.8K	5%	1/6W	
R325	1-247-835-00	CARBON	1.5K	5%	1/6W	
R326	1-247-821-00	CARBON	390	5%	1/6W	
R327	1-247-823-00	CARBON	470	5%	1/6W	
R328	1-247-811-00	CARBON	150	5%	1/6W	
R329	1-247-823-00	CARBON	470	5%	1/6W	
R330	1-247-855-00	CARBON	10K	5%	1/6W	
R331	1-247-857-00	CARBON	12K	5%	1/6W	
R332	1-247-889-00	CARBON	270K	5%	1/6W	
R333	1-247-851-00	CARBON	6.8K	5%	1/6W	
R334	1-247-831-00	CARBON	1K	5%	1/6W	
R335	1-247-851-00	CARBON	6.8K	5%	1/6W	
R336	1-247-843-00	CARBON	3.3K	5%	1/6W	
R337	1-247-807-00	CARBON	100	5%	1/6W	
R338	1-247-847-00	CARBON	4.7K	5%	1/6W	
R339	1-247-825-00	CARBON	560	5%	1/6W	
R340	1-247-825-00	CARBON	560	5%	1/6W	
R341	1-247-825-00	CARBON	560	5%	1/6W	
R342	1-247-875-00	CARBON	68K	5%	1/6W	
R343	1-247-875-00	CARBON	68K	5%	1/6W	
R344	1-247-875-00	CARBON	68K	5%	1/6W	
R345	1-247-871-00	CARBON	47K	5%	1/6W	
R346	1-247-831-00	CARBON	1K	5%	1/6W	
R347	1-247-871-00	CARBON	47K	5%	1/6W	
R348	1-247-855-00	CARBON	10K	5%	1/6W	
R350	1-247-871-00	CARBON	47K	5%	1/6W	
R351	1-247-865-00	CARBON	27K	5%	1/6W	
R353	1-247-869-00	CARBON	39K	5%	1/6W	
R354	1-247-871-00	CARBON	47K	5%	1/6W	

Ref.No	Part No.	Description				Remark
R355	1-247-871-00	CARBON	47K	5%	1/6W	
R359	1-247-879-00	CARBON	100K	5%	1/6W	
R360	1-247-833-00	CARBON	1.2K	5%	1/6W	
R361	1-247-871-00	CARBON	47K	5%	1/6W	
R363	1-247-831-00	CARBON	1K	5%	1/6W	
R364	1-247-891-00	CARBON	330K	5%	1/6W	
R365	1-247-871-00	CARBON	47K	5%	1/6W	
R366	1-247-891-00	CARBON	330K	5%	1/6W	
R367	1-247-871-00	CARBON	47K	5%	1/6W	
R368	1-247-891-00	CARBON	330K	5%	1/6W	
R369	1-247-847-00	CARBON	4.7K	5%	1/6W	
R370	1-247-871-00	CARBON	47K	5%	1/6W	
R371	1-247-871-00	CARBON	47K	5%	1/6W	
R372	1-247-831-00	CARBON	1K	5%	1/6W	
R373	1-247-871-00	CARBON	47K	5%	1/6W	
R374	1-247-855-00	CARBON	10K	5%	1/6W	
R375	1-247-871-00	CARBON	47K	5%	1/6W	
R376	1-247-843-00	CARBON	3.3K	5%	1/6W	
R377	1-247-807-00	CARBON	100	5%	1/6W	
R378	1-247-833-00	CARBON	1.2K	5%	1/6W	
R379	1-247-807-00	CARBON	100	5%	1/6W	
R380	1-247-833-00	CARBON	1.2K	5%	1/6W	
R381	1-247-823-00	CARBON	470	5%	1/6W	
R382	1-247-837-00	CARBON	1.8K	5%	1/6W	
R383	1-247-819-00	CARBON	330	5%	1/6W	
R384	1-247-835-00	CARBON	1.5K	5%	1/6W	
R385	1-247-823-00	CARBON	470	5%	1/6W	
R386	1-247-829-00	CARBON	820	5%	1/6W	
R387	1-247-823-00	CARBON	470	5%	1/6W	
R389	1-247-843-00	CARBON	3.3K	5%	1/6W	
R390	1-247-841-00	CARBON	2.7K	5%	1/6W	
R391	1-247-867-00	CARBON	33K	5%	1/6W	
R392	1-247-855-00	CARBON	10K	5%	1/6W	
R393	1-247-875-00	CARBON	68K	5%	1/6W	
R394	1-247-841-00	CARBON	2.7K	5%	1/6W	
R395	1-247-823-00	CARBON	470	5%	1/6W	
R398	1-247-825-00	CARBON	560	5%	1/6W	
R399	1-247-236-00	CARBON	680	5%	1/2W	
R401	1-247-855-00	CARBON	10K	5%	1/6W	
R402	1-247-871-00	CARBON	47K	5%	1/6W	
R403	1-247-815-00	CARBON	220	5%	1/6W	
R404	1-247-815-00	CARBON	220	5%	1/6W	
R405	1-247-815-00	CARBON	220	5%	1/6W	
R406	1-247-815-00	CARBON	220	5%	1/6W	
R407	1-247-871-00	CARBON	47K	5%	1/6W	
R408	1-247-891-00	CARBON	330K	5%	1/6W	
R410	1-247-847-00	CARBON	4.7K	5%	1/6W	
R413	1-247-831-00	CARBON	1K	5%	1/6W	
R414	1-247-831-00	CARBON	1K	5%	1/6W	
R450	1-247-823-00	CARBON	470	5%	1/6W	
R451	1-246-461-00	CARBON	330	5%	1/4W	
R452	1-247-813-00	CARBON	180	5%	1/6W	
R453	1-247-821-00	CARBON	390	5%	1/6W	

Ref.No	Part No.	Description				Remark
R454	1-247-839-00	CARBON	2.2K	5%	1/6W	
R455	1-247-879-00	CARBON	100K	5%	1/6W	
R456	1-247-821-00	CARBON	390	5%	1/6W	
R457	1-247-847-00	CARBON	4.7K	5%	1/6W	
R458	1-247-833-00	CARBON	1.2K	5%	1/6W	
R459	1-247-853-00	CARBON	8.2K	5%	1/6W	
R460	1-247-853-00	CARBON	8.2K	5%	1/6W	
R461	1-247-831-00	CARBON	1K	5%	1/6W	
R462	1-247-821-00	CARBON	390	5%	1/6W	
R463	1-247-859-00	CARBON	15K	5%	1/6W	
R464	1-247-859-00	CARBON	15K	5%	1/6W	
R465	1-247-839-00	CARBON	2.2K	5%	1/6W	
R466	1-247-833-00	CARBON	1.2K	5%	1/6W	
R467	1-247-843-00	CARBON	3.3K	5%	1/6W	
R468	1-247-855-00	CARBON	10K	5%	1/6W	
R469	1-247-899-00	CARBON	680K	5%	1/6W	
R470	1-247-841-00	CARBON	2.7K	5%	1/6W	
R471	1-247-831-00	CARBON	1K	5%	1/6W	
R475	1-247-855-00	CARBON	10K	5%	1/6W	
R501	1-247-819-00	CARBON	330	5%	1/6W	
R502	1-247-817-00	CARBON	270	5%	1/6W	
R503	1-247-613-00	CARBON	6.8K	5%	1/8W	
R504	1-247-877-00	CARBON	82K	5%	1/6W	
R505	1-247-843-00	CARBON	3.3K	5%	1/6W	
R506	1-247-868-00	CARBON	36K	5%	1/6W	
R507	1-247-857-00	CARBON	12K	5%	1/6W	
R508	1-247-877-00	CARBON	82K	5%	1/6W	
R509	1-247-871-00	CARBON	47K	5%	1/6W	
R510	1-247-835-00	CARBON	1.5K	5%	1/6W	
R511	1-247-841-00	CARBON	2.7K	5%	1/6W	
R512	1-215-460-00	METAL	43K	1%	1/6W	
R513	1-247-847-00	CARBON	4.7K	5%	1/6W	
R514	1-247-857-00	CARBON	12K	5%	1/6W	
R515	1-247-854-00	CARBON	9.1K	5%	1/6W	
R516	1-247-849-00	CARBON	5.6K	5%	1/6W	
R517	1-247-825-00	CARBON	560	5%	1/6W	
R518	1-215-463-00	METAL	56K	1%	1/6W	
R519	1-247-827-00	CARBON	680	5%	1/6W	
R520	1-247-820-00	CARBON	360	5%	1/6W	
R521	1-215-475-00	METAL	180K	1%	1/6W	
R522	1-215-461-00	METAL	47K	1%	1/6W	
R523	1-247-845-00	CARBON	3.9K	5%	1/6W	
R524	1-247-839-00	CARBON	2.2K	5%	1/6W	
R525	1-247-864-00	CARBON	24K	5%	1/6W	
R526	1-215-455-00	METAL	27K	1%	1/6W	
R527	1-247-831-00	CARBON	1K	5%	1/6W	
R528	1-247-855-00	CARBON	10K	5%	1/6W	
R529	1-247-783-00	CARBON	10	5%	1/8W	F
R530	1-246-469-00	CARBON	680	5%	1/4W	
R531	1-213-158-00	METAL OXIDE	18K	5%	1W	F
R532	1-247-815-00	CARBON	220	5%	1/6W	
R533	1-247-769-00	CARBON	2.7	5%	1/6W	
R551	1-214-681-00	METAL	10	1%	1/4W	

Ref.No	Part No.	Description				Remark
R552	1-244-859-00	CARBON	270	5%	1/2W	
R553	1-212-363-00	METAL OXIDE	1.8	5%	1W	F
R554	1-213-139-00	METAL OXIDE	470	5%	1W	F
R571	1-247-845-00	CARBON	3.9K	5%	1/6W	
R572	1-247-843-00	CARBON	3.3K	5%	1/6W	
R573	1-247-871-00	CARBON	47K	5%	1/6W	
R574	1-247-871-00	CARBON	47K	5%	1/6W	
R575	1-247-871-00	CARBON	47K	5%	1/6W	
R576	1-247-871-00	CARBON	47K	5%	1/6W	
R577	1-247-863-00	CARBON	22K	5%	1/6W	
R578	1-247-835-00	CARBON	1.5K	5%	1/6W	
R579	1-247-871-00	CARBON	47K	5%	1/6W	
R580	1-247-871-00	CARBON	47K	5%	1/6W	
R581	1-247-835-00	CARBON	1.5K	5%	1/6W	
R582	1-247-871-00	CARBON	47K	5%	1/6W	
R583	1-247-871-00	CARBON	47K	5%	1/6W	
R584	1-246-477-00	CARBON	1.5K	5%	1/4W	
R585	1-247-871-00	CARBON	47K	5%	1/6W	
R586	1-247-823-00	CARBON	470	5%	1/6W	
R588	1-247-881-00	CARBON	120K	5%	1/6W	
R589	1-247-871-00	CARBON	47K	5%	1/6W	
R590	1-247-888-00	CARBON	240K	5%	1/6W	
R801	1-247-809-00	CARBON	120	5%	1/6W	
R802	1-247-847-00	CARBON	4.7K	5%	1/6W	
R803	1-205-642-00	CEMENTED	3.3K	10%	5W	
R804	1-246-995-00	CARBON	1.8K	5%	1/8W	F
R805	1-247-871-00	CARBON	47K	5%	1/6W	
R806	1-247-847-00	CARBON	4.7K	5%	1/6W	
R807	1-212-371-00	METAL OXIDE	8.2	5%	1W	F
R808	1-213-128-00	METAL OXIDE	56	5%	1W	F
R809	1-213-147-00	METAL OXIDE	2.2K	5%	1W	F
R810	1-247-855-00	CARBON	10K	5%	1/6W	
R811	1-247-855-00	CARBON	10K	5%	1/6W	
R812	1-247-831-00	CARBON	1K	5%	1/6W	
R813	1-247-825-00	CARBON	560	5%	1/6W	
R814	1-247-807-00	CARBON	100	5%	1/6W	
R851	1-246-979-00	CARBON	1.2	5%	1/8W	F
R852	1-247-831-00	CARBON	1K	5%	1/8W	F
R853	1-247-636-00	CARBON	0.47	5%	1/8W	F
R854	1-246-491-00	CARBON	5.6K	5%	1/4W	
R855	1-247-636-00	CARBON	0.47	5%	1/8W	F
R858	1-202-830-00	SOLID	10K		1/2W	
R859	1-215-439-00	METAL	5.6K	1%	1/6W	
R861	1-214-781-00	METAL	150K	1%	1/4W	
R871	1-247-845-00	CARBON	3.9K	5%	1/6W	
R872	1-247-861-00	CARBON	18K	5%	1/6W	
R873	1-247-863-00	CARBON	22K	5%	1/6W	
R874	1-247-841-00	CARBON	2.7K	5%	1/6W	
R875	1-247-861-00	CARBON	18K	5%	1/6W	
R876	1-247-861-00	CARBON	18K	5%	1/6W	
R877	1-247-853-00	CARBON	8.2K	5%	1/6W	
R878	1-247-861-00	CARBON	18K	5%	1/6W	
R879	1-247-815-00	CARBON	220	5%	1/6W	

B Z1 Z2 F

Ref.No	Part No.	Description				Remark
R880	1-247-875-00	CARBON	68K	5%	1/6W	
R881	1-247-857-00	CARBON	12K	5%	1/6W	
R882	1-202-719-00	SOLID	1M	10%	1/2W	
R883	1-247-855-00	CARBON	10K	5%	1/6W	
R884	1-247-831-00	CARBON	1K	5%	1/6W	
		VARIABLE RESISTOR				
RV304	1-228-721-00	RES, ADJ, CERAMIC CARBON 2.2K				
RV305	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K				
RV306	1-228-718-00	RES, ADJ, CERAMIC CARBON 330				
RV501	1-228-160-11	RES, ADJ, METAL GLAZE 5K				
RV502	1-228-717-00	RES, ADJ, CERAMIC CARBON 220				
RV503	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K				
RV551	1-222-565-00	RES, ADJ, CARBON 3K				
RV801	1-223-102-00	RES, ADJ, WIREWOUND 120				
RV871	1-228-718-00	RES, ADJ, CERAMIC CARBON 330				
RV872	1-228-721-00	RES, ADJ, CERAMIC CARBON 2.2K				
RV873	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K				
		SPARK GAP				
SG801	1-519-063-XX	DISCHARGING GAP				
		TRANSFORMER				
T301	1-425-927-00	TRANSFORMER, BANDPASS (BPT)				
T302	1-404-081-00	TRANSFOMER, DELAY ADJUST				
T303	1-405-733-00	COIL, OSCILLATOR, APC				
T304	1-425-928-00	TRANSFORMER, DELAY ADJUSTING				
T305	1-405-733-00	COIL, OSCILLATOR, APC				
T401	1-404-146-00	TRANSFORMER				
T402	1-407-573-00	COIL, VARIABLE 47UH				
T403	1-407-573-00	COIL, VARIABLE 47UH				
T801	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE				
T852	1-421-520-00	TRANSFORMER, FERRITE (PHT)				
		THERMISTOR				
TH501	1-806-213-00	THERMISTOR				
		CRYSTAL				
X301	1-527-345-00	CRYSTAL, OSC				
X361	1-527-396-00	CRYSTAL, OSC				
	**********					
	●:1-610-638-00	Z1 BOARD				
		********				
		JACK				
J901	1-507-891-00	JACK, EARPHONE				

Ref.No	Part No.	Description				Remark
	●:1-610-639-00	Z2 BOARD				
		********				
		CAPACITOR				
C901	1-121-705-00	ELECT	2.2MF	30%	25V	
		TRANSFORMER				
T901	⚠1-427-534-11	TRANSFORMER, OUTPUT				
T902	⚠ 1-437-021-00	TRANSFORMER, HORIZONTAL DRIVE				
		CONNECTOR				
Z1	●:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P				
Z2	●:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P				
	**********					
	●:A-1245-196-A	F BOARD, COMPLETE				
		**********				
		CAPACITOR				
C601	⚠1-108-745-62	MYLAR	0.22MF	20%	300V	
C603	1-125-222-00	ELECT(BLOCK)	330MF	20%	400V	
C604	1-123-024-00	ELECT	33MF		160V	
C606	1-123-381-00	ELECT	2.2MF	20%	50V	
C608	1-108-381-00	MYLAR	0.022MF	10%	100V	
C609	1-102-030-00	CERAMIC	330PF	10%	500V	
C610	1-108-417-00	MYLAR	0.0047MF	10%	200V	
C611	1-102-973-00	CERAMIC	100PF	5%	50V	
C612	1-123-024-00	ELECT	33MF		160V	
C613	1-102-249-00	CERAMIC	680PF	20%	2KV	
C614	1-123-356-00	ELECT	10MF	20%	16V	
C615	1-106-180-00	MYLAR	0.0022MF	5%	100V	
C616	1-101-810-00	CERAMIC	100PF	5%	500V	
C617	1-101-002-00	CERAMIC	0.0022MF		50V	
C618	1-123-379-00	ELECT	0.47MF	20%	50V	
C619	1-102-030-00	CERAMIC	330PF	10%	500V	
C620	1-123-335-00	ELECT	330MF	20%	25V	
C621	1-102-030-00	CERAMIC	330PF	10%	500V	
C622	1-123-333-00	ELECT	100MF	20%	16V	
C623	1-161-830-00	CERAMIC	0.0047MF		500V	
C624	1-161-830-00	CERAMIC	0.0047MF		500V	
C625	1-102-030-00	CERAMIC	330PF	5%	500V	
C626	1-161-830-00	CERAMIC	0.0047MF		500V	
C627	1-161-830-00	CERAMIC	0.0047MF		500V	
C628	1-162-133-00	CERAMIC	390PF	10%	2KV	
C630	1-102-030-00	CERAMIC	330PF	10%	500V	
C631	1-161-830-00	CERAMIC	0.0047MF		500V	
C632	1-161-047-00	CERAMIC	4700PF		25V	
C633	1-101-810-00	CERAMIC	100PF		500V	
		DIODE				
D601	8-719-503-06	DIODE S3WB60Z				
D603	8-719-925-06	DIODE ERC25-06S				
D604	8-719-911-55	DIODE U05G				
D606	8-719-102-74	DIODE RD6.2E-N2				

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

F A

Ref.No	Part No.	Description				Remark
D608	8-719-924-06	DIODE ERC24-06S				
D609	8-719-911-55	DIODE U05G				
D611	8-719-911-19	DIODE 1SS119				
		CONNECTOR				
F1	●:1-506-348-XX	3P PLUG (L)				
F2	●:1-508-765-00	3P PLUG (M)				
F3	●:1-508-786-00	2P PLUG (M)				
F4	●:1-508-767-00	5P PLUG				
F5	●:1-508-768-00	6P PLUG				
		FUSE				
F601	⚠1-532-237-11	FUSE, TIME-LAG 3.15A				
	●:1-533-087-00	HOLDER, FUSE, F601				
		IC				
IC601	8-759-100-75	IC UPC1394C				
		COIL				
L601	1-408-300-00	MICRO INDUCTOR 6.8UH				
L602	1-407-365-00	COIL, CHOKE 0.7UH				
		TRANSISTOR				
Q601	8-729-900-48	TRANSISTOR 2SC3505				
	4-363-414-00	SPACER, MICA, Q601				
	●:4-367-204-00	HOLDER (REG OUT), TRANSFORMER, Q601				
Q602	8-729-195-82	TRANSISTOR 2SC2958				
Q603	8-729-163-94	TRANSISTOR 2SA639S				
Q604	8-729-117-54	TRANSISTOR 2SA1175				
Q605	8-729-178-54	TRANSISTOR 2SC2785				
		RESISTOR				
R601	1-247-879-00	CARBON	100K	5%	1/6W	
R602	1-247-829-00	CARBON	820	5%	1/6W	
R603	1-247-840-00	CARBON	2.4K	5%	1/6W	
R604	1-202-673-00	SOLID	15M	10%	1/2W	
R605	1-205-687-00	CEMENTED	54K	10%	7W	
R606	1-205-712-00	CEMENTED	3.9	5%	20W	
R608	1-247-866-00	CARBON	30K	5%	1/6W	
R609	1-247-855-00	CARBON	10K	5%	1/6W	
R611	1-247-829-00	CARBON	820	5%	1/6W	
R612	1-247-825-00	CARBON	560	5%	1/6W	
R613	1-247-889-00	CARBON	270K	5%	1/6W	
R614	1-247-851-00	CARBON	6.8K	5%	1/6W	
R615	1-247-855-00	CARBON	10K	5%	1/8W	
R616	1-212-353-00	WIREWOUND	0.27	5%	1W	F
R617	1-211-451-00	CARBON	1K	5%	1/8W	F
R618	1-247-805-00	CARBON	82	5%	1/6W	
R619	1-205-687-00	CEMENTED	54K	10%	7W	
R620	1-206-690-00	METAL OXIDE	12K	5%	2W	F
R622	1-247-869-00	CARBON	39K	5%	1/6W	
R623	1-247-897-00	CARBON	560K	5%	1/6W	

Ref.No	Part No.	Description				Remark
R624	1-247-871-00	CARBON	47K	5%	1/6W	
R625	1-247-871-00	CARBON	47K	5%	1/6W	
R626	1-247-819-00	CARBON	330	5%	1/6W	
R627	1-247-887-00	CARBON	220K	5%	1/6W	
R628	1-247-873-00	CARBON	56K	5%	1/6W	
R630	⚠1-217-318-11	WIREWOUND	470	10%	5W	F
R631	1-247-847-00	CARBON	4.7K	5%	1/6W	
R632	1-247-855-00	CARBON	10K	5%	1/6W	
R633	1-247-873-00	CARBON	56K	5%	1/6W	
R634	1-247-879-00	CARBON	100K	5%	1/6W	
R635	1-247-587-00	CARBON	0.47	5%	1/4W	
R636	1-247-636-00	CARBON	0.47	5%	1/8W	F
R637	1-247-823-00	CARBON	470	5%	1/6W	
R638	1-247-847-00	CARBON	4.7K	5%	1/6W	
		VARIABLE RESISTOR				
RV601	1-228-721-00	RES, ADJ, CERAMIC CARBON 2.2K				
		TRANSFORMER				
T601	⚠1-441-855-11	TRANSFORMER, HEATER INSULATION				
T602	1-446-194-00	TRANSFORMER, CHOPPER DRIVE				
T603	1-421-605-00	TRANSFORMER, FERRITE (SRT)				
		THERMISTOR				
TH601	1-800-945-00	THERMISTOR S-10K				
THP601	⚠1-800-362-13	POSISTOR				
	**********					
	●:A-1295-734-A	A BOARD, COMPLETE				
		**********				
	●:4-367-326-00	CASE (MAIN), SHIELD				
	●:4-367-327-00	CASE (BOTTOM LID), SHIELD				
	●:4-367-330-00	CASE (UPPER LID), SHIELD				
		CONNECTOR				
A1	●:1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P				
A2	●:1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P				
B9	●:1-556-104-00	CONNECTOR, MINIATURE 1P				
		CAPACITOR				
C101	1-108-387-00	MYLAR	0.068MF	10%	100V	
C102	1-108-387-00	MYLAR	0.068MF	10%	100V	
C103	1-102-963-00	CERAMIC	33PF	10%	50V	
C104	1-123-318-00	ELECT	33MF	20%	16V	
C105	1-123-330-00	ELECT	22MF	20%	16V	
C106	1-123-356-00	ELECT	10MF	20%	16V	
C107	1-108-389-00	MYLAR	0.1MF	10%	100V	
C108	1-123-356-00	ELECT	10MF	20%	16V	
C109	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C110	1-123-324-00	ELECT	1000MF	20%	16V	
C203	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C204	1-102-106-00	CERAMIC	100PF	10%	50V	

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Ref.No	Part No.	Description			Remark
C205	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C206	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C207	1-102-525-00	CERAMIC	68PF	5%	50V
C208	1-102-513-00	CERAMIC	18PF	5%	50V
C209	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C211	1-123-021-00	ELECT	0.47MF	30%	50V
C212	1-108-242-00	MYLAR	0.022MF	10%	50V
C214	1-101-969-00	CERAMIC	5PF	0.5PF	50V
C215	1-101-969-00	CERAMIC	5PF	0.5PF	50V
C217	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C220	1-161-059-00	CERAMIC	0.047MF	10%	50V
C221	1-102-836-00	CERAMIC	470PF	10%	50V
C222	1-161-059-00	CERAMIC	0.047MF	10%	50V
C223	1-161-059-00	CERAMIC	0.047MF	10%	50V
C229	1-161-059-00	CERAMIC	0.047MF	10%	50V
C231	1-123-286-00	ELECT	0.33MF	20%	50V
C232	1-161-051-00	CERAMIC	0.01MF	10%	50V
C233	1-102-525-00	CERAMIC	68PF	5%	50V
C234	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C235	1-123-318-00	ELECT	33MF	20%	16V
C236	1-161-059-00	CERAMIC	0.047MF	10%	50V
C241	1-102-836-00	CERAMIC	470PF	10%	50V
C243	1-161-059-00	CERAMIC	0.047MF	10%	50V
C271	1-161-059-00	CERAMIC	0.047MF	10%	50V
C273	1-161-059-00	CERAMIC	0.047MF	10%	50V
C274	1-161-059-00	CERAMIC	0.047MF	10%	50V
C275	1-123-356-00	ELECT	10MF	20%	16V
C276	1-102-514-00	CERAMIC	22PF	5%	50V
C277	1-123-318-00	ELECT	33MF	20%	16V
C278	1-161-059-00	CERAMIC	0.047MF	10%	50V
C279	1-102-529-00	CERAMIC	100PF	5%	50V
C280	1-102-529-00	CERAMIC	100PF	5%	50V
C281	1-123-356-00	ELECT	10MF	20%	16V
C282	1-123-356-00	ELECT	10MF	20%	16V
C283	1-123-332-00	ELECT	47MF	20%	16V
C290	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C291	1-123-380-00	ELECT	1MF	20%	50V
C292	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C293	1-161-059-00	CERAMIC	0.047MF	10%	50V
C294	1-161-059-00	CERAMIC	0.047MF	10%	50V
C295	1-123-333-00	ELECT	100MF	20%	16V
C296	1-101-005-00	CERAMIC	0.022MF		50V
C297	1-102-125-00	CERAMIC	0.0047MF	10%	50V

FILTER

CF221	1-567-099-00	FILTER, CERAMIC	
CF222	1-404-134-00	TRAP, CERAMIC (5.5MHZ)	
CF223	1-404-473-00	DISCRIMINATOR, CERAMIC	
CF241	1-527-943-00	FILTER, CERAMIC	
CF242	1-409-332-00	CERAMIC TRAP (4.5MHZ)	
CF243	1-404-469-00	DISCRIMINATOR, CERAMIC	4.5MHZ
CF271	1-404-380-00	DISCRIMINATOR, CERAMIC	5.5MHZ
CF272	1-567-099-00	FILTER, CERAMIC	

Ref.No	Part No.	Description	Remark

DIODE

D221	8-719-911-19	DIODE 1SS119	
D241	8-719-911-19	DIODE 1SS119	
D271	8-719-911-19	DIODE 1SS119	

IC

IC101	8-759-800-12	IC LA7920	
IC201	8-752-001-50	IC CX20015	
IC202	8-759-240-66	IC TC4066BP	
IC203	8-759-193-91	IC UPC1391H	
IC204	8-759-100-06	IC UPC4556C	

COIL

L202	1-408-591-00	MICRO INDUCTOR 1UH	
L203	1-408-615-00	MICRO INDUCTOR 100UH	
L214	1-409-372-00	COIL, TRAP	
L221	1-408-594-00	MICRO INDUCTOR 1.8UH	
L223	1-408-607-00	MICRO INDUCTOR 22UH	
L225	1-408-601-00	MICRO INDUCTOR 6.8UH	
L241	1-408-596-00	MICRO INDUCTOR 2.7UH	
L243	1-408-608-00	MICRO INDUCTOR 27UH	
L245	1-408-605-00	MICRO INDUCTOR 15UH	
L246	1-408-612-00	MICRO INDUCTOR 56UH	

TRANSISTOR

Q101	8-729-178-54	TRANSISTOR	2SC2785
Q200	8-765-300-00	TRANSISTOR	2SC2009
Q201	8-729-900-36	TRANSISTOR	DTC124ES
Q202	8-729-900-36	TRANSISTOR	DTC124ES
Q203	8-729-178-54	TRANSISTOR	2SC2785
Q204	8-729-117-54	TRANSISTOR	2SA1175
Q205	8-729-178-54	TRANSISTOR	2SC2785
Q206	8-729-178-54	TRANSISTOR	2SC2785
Q207	8-729-117-54	TRANSISTOR	2SA1175
Q241	8-729-900-36	TRANSISTOR	DTC124ES
Q242	8-729-900-36	TRANSISTOR	DTC124ES
Q243	8-729-178-54	TRANSISTOR	2SC2785
Q244	8-729-900-36	TRANSISTOR	DTC124ES
Q245	8-729-900-36	TRANSISTOR	DTC124ES
Q291	8-729-177-32	TRANSISTOR	2SD773

RESISTOR

R101	1-247-867-00	CARBON	33K	5%	1/6W
R102	1-247-891-00	CARBON	330K	5%	1/6W
R103	1-247-839-00	CARBON	2.2K	5%	1/6W
R104	1-247-839-00	CARBON	2.2K	5%	1/6W
R105	1-247-847-00	CARBON	4.7K	5%	1/6W
R107	1-247-883-00	CARBON	150K	5%	1/6W
R108	1-247-879-00	CARBON	100K	5%	1/6W
R110	1-247-855-00	CARBON	10K	5%	1/6W
R111	1-247-855-00	CARBON	10K	5%	1/6W
R112	1-247-857-00	CARBON	12K	5%	1/6W
R201	1-247-837-00	CARBON	1.8K	5%	1/6W

A M2

Ref.No	Part No.	Description				Remark
R202	1-247-847-00	CARBON	4.7K	5%	1/6W	
R203	1-247-845-00	CARBON	3.9K	5%	1/6W	
R204	1-247-815-00	CARBON	220	5%	1/6W	
R205	1-247-823-00	CARBON	470	5%	1/6W	
R206	1-247-857-00	CARBON	12K	5%	1/6W	
R207	1-247-857-00	CARBON	12K	5%	1/6W	
R208	1-247-841-00	CARBON	2.7K	5%	1/6W	
R209	1-247-831-00	CARBON	1K	5%	1/6W	
R210	1-247-871-00	CARBON	47K	5%	1/6W	
R211	1-247-839-00	CARBON	2.2K	5%	1/6W	
R212	1-247-879-00	CARBON	100K	5%	1/6W	
R215	1-247-839-00	CARBON	2.2K	5%	1/6W	
R221	1-247-826-00	CARBON	620	5%	1/6W	
R222	1-247-879-00	CARBON	100K	5%	1/6W	
R223	1-247-879-00	CARBON	100K	5%	1/6W	
R224	1-247-828-00	CARBON	750	5%	1/6W	
R225	1-247-814-00	CARBON	200	5%	1/6W	
R226	1-247-807-00	CARBON	100	5%	1/6W	
R227	1-247-879-00	CARBON	100K	5%	1/6W	
R228	1-247-843-00	CARBON	3.3K	5%	1/6W	
R229	1-247-845-00	CARBON	3.9K	5%	1/6W	
R231	1-247-815-00	CARBON	220	5%	1/6W	
R232	1-247-883-00	CARBON	150K	5%	1/6W	
R235	1-247-840-00	CARBON	2.4K	5%	1/6W	
R236	1-246-464-00	CARBON	430	5%	1/4W	
R240	1-247-835-00	CARBON	1.5K	5%	1/6W	
R241	1-247-831-00	CARBON	1K	5%	1/6W	
R242	1-247-879-00	CARBON	100K	5%	1/6W	
R243	1-247-879-00	CARBON	100K	5%	1/6W	
R244	1-247-831-00	CARBON	1K	5%	1/6W	
R245	1-247-816-00	CARBON	240	5%	1/6W	
R246	1-247-807-00	CARBON	100	5%	1/6W	
R247	1-247-879-00	CARBON	100K	5%	1/6W	
R271	1-247-855-00	CARBON	10K	5%	1/6W	
R272	1-247-855-00	CARBON	10K	5%	1/6W	
R273	1-247-840-00	CARBON	2.4K	5%	1/6W	
R274	1-247-826-00	CARBON	620	5%	1/6W	
R275	1-247-817-00	CARBON	270	5%	1/6W	
R276	1-247-821-00	CARBON	390	5%	1/6W	
R277	1-247-847-00	CARBON	4.7K	5%	1/6W	
R278	1-247-829-00	CARBON	820	5%	1/6W	
R279	1-247-891-00	CARBON	330K	5%	1/6W	
R280	1-247-847-00	CARBON	4.7K	5%	1/6W	
R281	1-247-855-00	CARBON	10K	5%	1/6W	
R282	1-247-871-00	CARBON	47K	5%	1/6W	
R283	1-247-862-00	CARBON	20K	5%	1/6W	
R284	1-247-831-00	CARBON	1K	5%	1/6W	
R285	1-247-859-00	CARBON	15K	5%	1/6W	
R286	1-247-845-00	CARBON	3.9K	5%	1/6W	
R287	1-247-840-00	CARBON	2.4K	5%	1/6W	
R288	1-247-823-00	CARBON	470	5%	1/6W	
R290	1-247-835-00	CARBON	1.5K	5%	1/6W	
R291	1-247-831-00	CARBON	1K	5%	1/6W	

Ref.No	Part No.	Description				Remark
R292	1-247-855-00	CARBON	10K	5%	1/6W	
R294	1-247-798-00	CARBON	43	5%	1/6W	
R295	1-246-464-00	CARBON	430	5%	1/4W	
R296	1-247-831-00	CARBON	1K	5%	1/6W	
R298	1-247-833-00	CARBON	1.2K	5%	1/6W	
R299	1-247-851-00	CARBON	6.8K	5%	1/6W	

VARIABLE RESISTOR

RV201	1-228-723-00	RES, ADJ, CERAMIC CARBON	4.7K
RV202	1-228-721-00	RES, ADJ, CERAMIC CARBON	2.2K

FILTER

SF201	1-404-487-00	SAWF	

TRANSFORMER

T201	1-404-464-00	COIL, VIF	
T202	1-404-465-00	COIL, VIF (MOLD TYPE)	
T203	1-404-465-00	COIL, VIF (MOLD TYPE)	

TUNER

TU101 ⚠	1-463-389-00	TUNER (BT-887)	

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	★:A-1301-484-A	M2 BOARD, COMPLETE	
		**********	
	★:1-526-729-00	SOCKET, IC (1.78MM PITCH)	42P
	★:4-367-325-00	CASE (UPPER), SHIELD, M	
	★:4-367-328-00	CASE (MAIN), SHIELD, M	
	★:4-367-329-00	CASE (LOWER), SHIELD, M	

CONNECTOR

A2	★:1-556-879-00	CONNECTOR ASSY (2.5MM)	10P
B2	★:1-551-735-00	CONNECTOR ASSY (7P)	

CAPACITOR

C001	1-101-004-00	CERAMIC	0.01MF		50V
C002	1-101-004-00	CERAMIC	0.01MF		50V
C003	1-123-333-00	ELECT	100MF	20%	16V
C004	1-101-004-00	CERAMIC	0.01MF		50V
C005	1-102-963-00	CERAMIC	33PF	5%	50V
C006	1-102-959-00	CERAMIC	22PF	5%	50V
C007	1-123-330-00	ELECT	22MF	20%	16V
C008	1-101-004-00	CERAMIC	0.01MF		50V
C009	1-123-381-00	ELECT	2.2MF	20%	50V
C010	1-101-004-00	CERAMIC	0.01MF		50V
C011	1-123-586-00	ELECT	0.1MF	20%	50V
C012	1-102-973-00	CERAMIC	100PF	5%	50V
C013	1-108-389-00	MYLAR	0.1MF	10%	100V
C014	1-123-382-00	ELECT	3.3MF	20%	50V
C015	1-101-004-00	CERAMIC	0.01MF		50V
C016	1-123-356-00	ELECT	10MF	20%	16V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

M2

Ref.No	Part No.	Description				Remark
C017	1-123-356-00	ELECT	10MF	20%	50V	
C018	1-108-389-00	MYLAR	0.1MF	10%	100V	
C019	1-123-356-00	ELECT	10MF	20%	50V	
C020	1-123-332-00	ELECT	47MF	20%	16V	
C022	1-101-004-00	CERAMIC	0.01MF		50V	
C023	1-101-004-00	CERAMIC	0.01MF		50V	
C024	1-123-447-00	ELECT	0.22MF	20%	50V	
C026	1-102-963-00	CERAMIC	33PF	5%	50V	
C027	1-123-356-00	ELECT	10MF	20%	16V	
C028	1-123-356-00	ELECT	10MF	20%	16V	
C030	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C031	1-123-380-00	ELECT	1MF	20%	50V	
C032	1-123-159-00	ELECT	1MF	20%	50V	
C043	1-101-004-00	CERAMIC	0.01MF		50V	
C044	1-102-973-00	CERAMIC	100PF	5%	50V	
		FILTER				
CF001	1-527-790-00	OSCILLATOR, CERAMIC				
		DIODE				
D001	8-719-911-19	DIODE 1SS119				
D002	8-719-911-19	DIODE 1SS119				
D003	8-719-911-19	DIODE 1SS119				
D005	8-719-911-19	DIODE 1SS119				
D006	8-719-911-19	DIODE 1SS119				
D008	8-719-911-19	DIODE 1SS119				
D009	8-719-911-19	DIODE 1SS119				
D010	8-719-101-40	DIODE RD3.9E-L1				
D019	8-719-101-59	DIODE RD5.6E-L3				
D020	8-719-102-26	DIODE RD30E-L4				
		CONNECTOR				
F5	♦:1-556-796-00	CONNECTOR ASSY, MINIATURE 6P				
		IC				
IC001	8-759-600-63	IC CX519-004P				
IC002	8-759-600-66	IC M58653P				
IC003	8-759-157-40	IC UPC574J				
		COIL				
L001	1-407-505-00	MICRO INDUCTOR 12MMH				
L002	1-408-424-00	MICRO INDUCTOR 180UH				
L003	1-408-611-00	MICRO INDUCTOR 47UH				
L004	1-408-405-00	MICRO INDUCTOR 4.7UH				
		CONNECTOR				
M1	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P				
M2	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)				
		TRANSISTOR				
Q001	8-729-117-54	TRANSISTOR 2SA1175				
Q002	8-729-178-54	TRANSISTOR 2SC2785				
Q004	8-729-178-54	TRANSISTOR 2SC2785				
Q005	8-729-178-54	TRANSISTOR 2SC2785				
Q006	8-729-178-54	TRANSISTOR 2SC2785				
Q007	8-729-603-50	TRANSISTOR 2SC403SP				
Q008	8-729-178-54	TRANSISTOR 2SC2785				
Q009	8-729-117-54	TRANSISTOR 2SA1175				
Q010	8-729-117-54	TRANSISTOR 2SA1175				
Q016	8-729-177-32	TRANSISTOR 2SD773				
Q017	8-729-117-54	TRANSISTOR 2SA1175				
		RESISTOR				
R001	1-247-827-00	CARBON	680	5%	1/6W	
R002	1-247-839-00	CARBON	2.2K	5%	1/6W	
R003	1-247-831-00	CARBON	1K	5%	1/6W	
R004	1-247-831-00	CARBON	1K	5%	1/6W	
R005	1-247-831-00	CARBON	1K	5%	1/6W	
R006	1-247-831-00	CARBON	1K	5%	1/6W	
R007	1-246-473-00	CARBON	1K	5%	1/4W	
R008	1-247-855-00	CARBON	10K	5%	1/6W	
R009	1-247-831-00	CARBON	1K	5%	1/6W	
R010	1-246-473-00	CARBON	1K	5%	1/4W	
R011	1-247-831-00	CARBON	1K	5%	1/6W	
R012	1-247-831-00	CARBON	1K	5%	1/6W	
R013	1-247-815-00	CARBON	220	5%	1/6W	
R014	1-247-815-00	CARBON	220	5%	1/6W	
R015	1-247-815-00	CARBON	220	5%	1/6W	
R016	1-247-815-00	CARBON	220	5%	1/6W	
R017	1-247-815-00	CARBON	220	5%	1/6W	
R018	1-247-815-00	CARBON	220	5%	1/6W	
R019	1-247-815-00	CARBON	220	5%	1/6W	
R020	1-213-157-00	METAL OXIDE	15K	5%	1W	F
R021	1-213-159-00	METAL OXIDE	22K	5%	1W	F
R022	1-247-815-00	CARBON	220	5%	1/6W	
R023	1-247-815-00	CARBON	220	5%	1/6W	
R024	1-247-847-00	CARBON	4.7K	5%	1/6W	
R025	1-247-847-00	CARBON	4.7K	5%	1/6W	
R026	1-247-847-00	CARBON	4.7K	5%	1/6W	
R027	1-247-859-00	CARBON	15K	5%	1/6W	
R028	1-247-859-00	CARBON	15K	5%	1/6W	
R030	1-247-859-00	CARBON	15K	5%	1/6W	
R031	1-247-859-00	CARBON	15K	5%	1/6W	
R032	1-246-473-00	CARBON	1K	5%	1/4W	
R033	1-247-843-00	CARBON	3.3K	5%	1/6W	
R034	1-247-873-00	CARBON	56K	5%	1/6W	
R035	1-247-868-00	CARBON	36K	5%	1/6W	
R036	1-247-857-00	CARBON	12K	5%	1/6W	
R037	1-247-871-00	CARBON	47K	5%	1/6W	
R038	1-247-875-00	CARBON	68K	5%	1/6W	
R040	1-247-851-00	CARBON	6.8K	5%	1/6W	
R041	1-247-863-00	CARBON	22K	5%	1/6W	
R042	1-247-863-00	CARBON	22K	5%	1/6W	
R043	1-247-863-00	CARBON	22K	5%	1/6W	
R044	1-247-863-00	CARBON	22K	5%	1/6W	
R045	1-247-841-00	CARBON	2.7K	5%	1/6W	

M2 M1

Ref.No	Part No.	Description				Remark
R046	1-247-859-00	CARBON	15K	5%	1/6W	
R047	1-247-863-00	CARBON	22K	5%	1/6W	
R048	1-247-869-00	CARBON	39K	5%	1/6W	
R049	1-247-871-00	CARBON	47K	5%	1/6W	
R050	1-247-849-00	CARBON	5.6K	5%	1/6W	
R051	1-247-849-00	CARBON	5.6K	5%	1/6W	
R052	1-247-831-00	CARBON	1K	5%	1/6W	
R054	1-247-849-00	CARBON	5.6K	5%	1/6W	
R055	1-247-871-00	CARBON	47K	5%	1/6W	
R056	1-247-855-00	CARBON	10K	5%	1/6W	
R057	1-247-863-00	CARBON	22K	5%	1/6W	
R059	1-247-879-00	CARBON	100K	5%	1/6W	
R060	1-247-843-00	CARBON	3.3K	5%	1/6W	
R061	1-247-853-00	CARBON	8.2K	5%	1/6W	
R062	1-247-807-00	CARBON	100	5%	1/6W	
R063	1-247-883-00	CARBON	150K	5%	1/6W	
R064	1-247-863-00	CARBON	22K	5%	1/6W	
R080	1-246-473-00	CARBON	1K	5%	1/4W	
R081	1-247-875-00	CARBON	68K	5%	1/6W	
R083	1-247-855-00	CARBON	10K	5%	1/6W	
R084	1-247-821-00	CARBON	390	5%	1/6W	
R090	1-247-855-00	CARBON	10K	5%	1/6W	
R096	1-247-863-00	CARBON	22K	5%	1/6W	

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♦:1-610-357-00	M1 BOARD	
	********	
♦:1-526-638-00	SOCKET, IC (9P)	
♦:4-342-714-00	COVER, LED	
♦:4-350-901-00	HOLDER (M), LED	
♦:4-357-710-00	HOLDER, LED	
	CONNECTOR	
B5 ♦:1-555-962-00	CONNECTOR ASSY (2.5MM) 5P	
B7 ♦:1-556-321-00	CONNECTOR ASSY (2.5MM) 7P	
	CAPACITOR	
C020 1-123-356-00	ELECT 10MF 20% 16V	
C025 1-108-383-00	MYLAR 0.033MF 10% 100V	
C033 1-101-004-00	CERAMIC 0.01MF 50V	
C034 1-101-004-00	CERAMIC 0.01MF 50V	
C035 1-102-973-00	CERAMIC 100PF 5% 50V	
C042 1-123-295-00	ELECT 100MF 20% 6.3V	
	DIODE	
D013	8-719-911-19 DIODE 1SS119	
D014	8-719-911-19 DIODE 1SS119	
D015	8-719-911-19 DIODE 1SS119	
D016	8-719-911-19 DIODE 1SS119	
D017	8-719-911-19 DIODE 1SS119	

Ref.No	Part No.	Description				Remark
		IC				
IC004	8-759-619-03	IC M51903L				
		DIODE				
LED001	8-719-812-41	DIODE TLR124				
LED002	8-719-812-41	DIODE TLR124				
LED003	8-719-908-08	DIODE SL1274				
LED004	8-719-902-06	DIODE SLP152B-50				
		NEON LAMP				
NL001	1-519-154-00	LAMP, NEON				
NL002	1-519-154-00	LAMP, NEON				
NL003	1-519-154-00	LAMP, NEON				
NL004	1-519-154-00	LAMP, NEON				
		TRANSISTOR				
Q011	8-729-178-54	TRANSISTOR 2SC2785				
Q012	8-729-255-12	TRANSISTOR 2SC2551				
Q013	8-729-255-12	TRANSISTOR 2SC2551				
Q014	8-729-255-12	TRANSISTOR 2SC2551				
Q015	8-729-255-12	TRANSISTOR 2SC2551				
		RESISTOR				
R066	1-246-485-00	CARBON	3.3K	5%	1/4W	
R067	1-246-485-00	CARBON	3.3K	5%	1/4W	
R068	1-246-485-00	CARBON	3.3K	5%	1/4W	
R069	1-246-485-00	CARBON	3.3K	5%	1/4W	
R070	1-246-485-00	CARBON	3.3K	5%	1/4W	
R071	1-247-875-00	CARBON	68K	5%	1/6W	
R072	1-247-867-00	CARBON	33K	5%	1/6W	
R074	1-246-489-00	CARBON	4.7K	5%	1/4W	
R075	1-246-519-00	CARBON	82K	5%	1/4W	
R076	1-246-513-00	CARBON	47K	5%	1/4W	
R077	1-246-513-00	CARBON	47K	5%	1/4W	
R078	1-246-513-00	CARBON	47K	5%	1/4W	
R079	1-246-513-00	CARBON	47K	5%	1/4W	
R082	1-246-425-00	CARBON	10	5%	1/4W	
R091	1-247-871-00	CARBON	47K	5%	1/6W	
R092	1-247-871-00	CARBON	47K	5%	1/6W	
R093	1-247-871-00	CARBON	47K	5%	1/6W	
R094	1-247-871-00	CARBON	47K	5%	1/6W	
		VARIABLE RESISTOR				
RV001	1-228-936-00	RES, VAR, CARBON 10K				
RV002	1-230-166-00	RES, VAR, CARBON 500				
RV003	1-228-938-00	RES, VAR, CARBON 20K				
RV004	1-228-936-00	RES, VAR, CARBON 10K				
		SWITCH				
S001	1-552-774-00	SWITCH, PUSH				
S002	1-552-774-00	SWITCH, PUSH				
S003	1-552-774-00	SWITCH, PUSH				
S004	1-552-774-00	SWITCH, PUSH				

M1 C N

N

Ref.No	Part No.	Description	Remark
S005	1-552-774-00	SWITCH, PUSH	
S006	1-552-774-00	SWITCH, PUSH	
S007	1-552-774-00	SWITCH, PUSH	
S008	1-552-774-00	SWITCH, PUSH	
S009	1-552-774-00	SWITCH, PUSH	
S010	1-552-774-00	SWITCH, PUSH	
S011	1-552-774-00	SWITCH, PUSH	
S012	1-552-774-00	SWITCH, PUSH	
S013	1-552-774-00	SWITCH, PUSH	
S014	1-552-774-00	SWITCH, PUSH	
S015	1-552-774-00	SWITCH, PUSH	
S016	1-516-781-XX	SLIDE SWITCH	
		**********	
	★:A-1330-456-A	C BOARD, COMPLETE **********	
	1-526-616-00	SOCKET, CRT	
		CONNECTOR	
B6	★:1-551-794-00	CONNECTOR 6P	
B8	★:1-561-016-00	CONNECTOR ASSY, MINIATURE 5P	
C1	★:1-506-371-00	2P PLUG (L)	
		CAPACITOR	
C701	1-102-110-00	CERAMIC 220PF 10% 50V	
C702	1-102-110-00	CERAMIC 220PF 10% 50V	
C703	1-102-110-00	CERAMIC 220PF 10% 50V	
C704	1-129-714-00	FILM 0.01MF 10% 630V	
C705	1-102-050-00	CERAMIC 0.01MF 500V	
C706	1-162-115-00	CERAMIC 330PF 10% 2KV	
C707	1-162-115-00	CERAMIC 330PF 10% 2KV	
C708	1-123-332-00	ELECT 47MF 20% 16V	
		COIL	
L701	1-407-175-XX	MICRO INDUCTOR 330UH	
L702	1-407-780-00	COIL, SPOOK CHOKE 3.3UH	
		NEON LAMP	
NL701	1-519-108-XX	LAMP, NEON ASSY	
		TRANSISTOR	
Q701	8-729-322-78	TRANSISTOR 2SC2278	
Q702	8-729-322-78	TRANSISTOR 2SC2278	
Q703	8-729-322-78	TRANSISTOR 2SC2278	
	★:4-362-279-00	SPACER, TR, Q701,702,703	
		RESISTOR	
R701	1-247-853-00	CARBON 8.2K 5% 1/6W	
R702	1-247-853-00	CARBON 8.2K 5% 1/6W	
R703	1-247-853-00	CARBON 8.2K 5% 1/6W	
R704	1-247-819-00	CARBON 330 5% 1/6W	
R705	1-247-818-00	CARBON 300 5% 1/6W	
R706	1-247-820-00	CARBON 360 5% 1/6W	
R707	1-247-815-00	CARBON 220 5% 1/6W	
R708	1-247-815-00	CARBON 220 5% 1/6W	
R709	1-247-815-00	CARBON 220 5% 1/6W	
R710	1-206-692-00	METAL OXIDE 15K 5% 2W F	
R711	1-206-692-00	METAL OXIDE 15K 5% 2W F	
R712	1-206-692-00	METAL OXIDE 15K 5% 2W F	
R713	1-202-824-00	SOLID 3.3K 1/2W	
R714	1-202-824-00	SOLID 3.3K 1/2W	
R715	1-202-824-00	SOLID 3.3K 1/2W	
R716	1-202-847-00	SOLID 560K 1/2W	
R717	1-202-847-00	SOLID 560K 1/2W	
R718	1-202-543-00	SOLID 56 10% 1/2W	
R719	1-202-629-00	SOLID 220K 1/2W	
R720	1-202-847-00	SOLID 560K 1/2W	
R721	1-202-836-00	SOLID 56K 1/2W	
R724	1-202-847-00	SOLID 560K 1/2W	
R725	1-202-613-00	SOLID 47K 1/2W	
R726	1-247-843-00	CARBON 3.3K 5% 1/6W	
R727	1-247-843-00	CARBON 3.3K 5% 1/6W	
R728	1-247-843-00	CARBON 3.3K 5% 1/6W	
		VARIABLE RESISTOR	
RV701	1-228-718-00	RES, ADJ, CERAMIC CARBON 330	
RV702	1-228-718-00	RES, ADJ, CERAMIC CARBON 330	
RV703	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M	
RV704	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M	
RV705	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K	
RV706	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K	
RV707	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K	
		SPARK GAP	
SG701	1-519-063-XX	DISCHARGING GAP	
SG702	1-519-063-XX	DISCHARGING GAP	
SG703	1-519-063-XX	DISCHARGING GAP	
SG705	1-519-063-XX	DISCHARGING GAP	
SG706	1-519-063-XX	DISCHARGING GAP	
		**********	
	★:1-606-794-00	N BOARD *******	
	★:4-342-117-00	CASE, SHIELD (MAIN), R	
	★:4-342-118-00	LID, SHIELD CASE, R	
		CAPACITOR	
C1	1-123-617-00	ELECT 10MF 20% 16V	
C2	1-123-617-00	ELECT 10MF 20% 16V	
C3	1-123-617-00	ELECT 10MF 20% 16V	
C4	1-161-019-00	CERAMIC 0.033MF 10% 25V	
C5	1-108-567-00	MYLAR 0.0033MF 5% 50V	
C6	1-123-821-00	ELECT 47MF 20% 16V	

Ref.No	Part No.	Description	Remark
		DIODE	
D1	8-719-110-32	DIODE PH302B	
		IC	
IC1	8-759-113-73	IC UPC1373H	
		COIL	
L1	1-404-310-00	COIL 4.7MMH	
		CONNECTOR	
M1	★:1-551-750-00	CONNECTOR ASSY (3P)	
		**********	
		MISCELLANEOUS **********	
	⚠.1-228-253-00	RESISTOR ASSY, HIGH-VOLTAGE	
	1-452-032-00	MAGNET, DISK; 10MM ø	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ø	
	1-452-146-00	MAGNET, BMC	
	★:1-508-762-00	CONNECTOR ASSY 3P	
	⚠.1-536-494-00	ANT TERMINAL ASSY	
	★:1-551-383-00	CABLE, WITH PIN	
	⚠.1-551-427-11	CORD, POWER, EULO PLUG	
	★:1-551-573-00	CONNECTOR ASSY, MINIATURE 5P	
	★:1-551-787-00	CONNECTOR 4P	
	★:1-551-935-00	CONNECTOR ASSY (2.5MM) 3P	
	★:1-556-342-00	CONNECTOR ASSY (2.5MM) 3P	
	★:1-556-879-00	CONNECTOR ASSY (2.5MM) 10P	
L901	⚠.1-425-901-31	COIL, DEGAUSS	
L902	⚠.1-451-204-00	DEFLECTION YOKE (SY-108B)	
S901	⚠.1-553-225-00	SWITCH, PUSH	
SP901	1-503-080-00	SPEAKER	
SP902	8-927-129-00	SPEAKER UNIT (040T004)	
T851	⚠.1-439-280-00	TRANSFORMER ASSY, FLYBACK	
V901	⚠.8-738-704-05	CRT 520SB22	

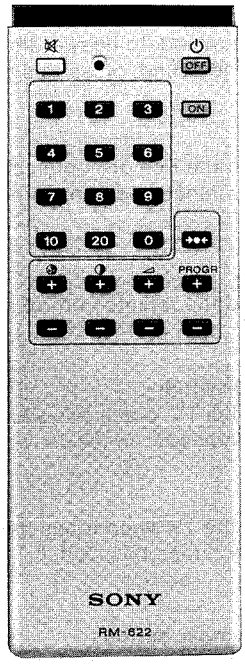
ACCESSORIES AND PACKING MATERIALS
****

Part No.	Discription	Remark
A-1470-630-A	COMMANDER ASSY (RM-622)	
1-417-094-00	MIXER, U/V (PAL)	
1-501-284-00	ANTENNA, TELESCOPIC (AN-18E)	
1-504-034-72	MAGNETIC EARPHONE ME-20	
1-506-409-00	ADAPTOR, CONVERSION	
1-508-955-00	PLUG, ANTENNA	
1-513-382-00	ANTENNA MUTCHING	
3-701-352-00	BAG, POLYETHYLENE (FOR ACCESSORIES)	
4-310-638-00	BAG, POLYETHYLENE(FOR PACKING MATERIALS)	
4-367-337-00	INDIVIDUAL CARTON	
4-367-342-00	CUSHION (UPPER) (ASSY)	
4-367-343-00	CUSHION (LOWER) (ASSY)	
4-491-689-01	SCHEMATIC DIAGRAM (B2)	
4-493-810-41	MANUAL, INSTRUCTION	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

RM-622

SERVICE MANUAL



August, 1983

SPECIFICATIONS

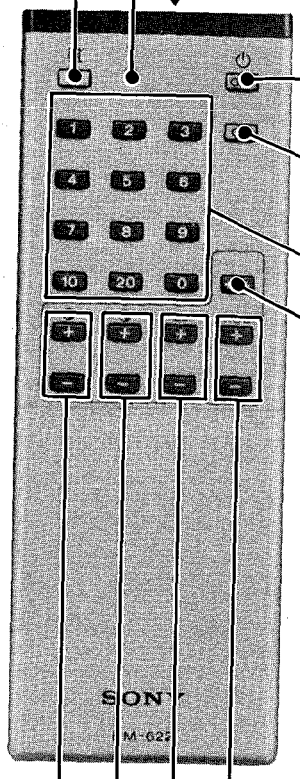
Remote control system	Infrared control
Power requirements	3 V dc 2 batteries IEC designation R6 (size AA)
Dimensions	Approx. 54 × 20 × 150 mm (w/h/d)
Weight	Approx. 125 g
Accessories supplied	Battery IEC designation R6 (2 pcs.)

MICROFILM

REMOTE COMMANDER

SONY®

1. FUNCTION OF BUTTONS ON THE REMOTE COMMANDER



Buttons and controls which have no equivalent on the TV.

(sound mute) button
To mute the sound (to answer the telephone, for instance), press this button. To restore the sound, press this button again.

Indicator
Lights when the Remote Commander is operating. If the indicator does not light when a function button is pressed, the battery needs to be replaced.

Transmitter
Point toward the remote control detector on the TV.

⏻ (standby) switch
To turn off the TV, press this switch. The TV will enter into the standby mode and the ⏻ indicator on the TV will light.

ON switch
To turn on the TV when it has been turned off with the ⏻ switch on the Commander, press this switch.

Program number buttons
Programs are directly selected by pressing the corresponding numbers.
For programs 1 through 9, press the appropriate single-digit button.
For programs 10 through 19, first press the [10] button (the tens-digit " 1 " will blink on the program indicator), then the button corresponding to the last digit of the program number (the tens-digit will now stop blinking).

For example: for program 10, press [10] and [0].
for program 11, press [10] and [1].

Similarly, for programs 20 to 29, press the [20] button and then the single-digit button.
For program 30, press the [0] button.

Note: If you do not press a single-digit button within several seconds after pressing the [10] or [20] button, the previous program setting will be automatically recalled.

By simply pressing any button, you can turn on the TV when it has been turned off with the switch on the Commander.

→·← (normal) button
Pressing this button once instantly returns the color and picture contrast settings made with the ◐ and ◑ buttons on the Commander to the factory-preset levels.

Buttons whose functions are the same as the TV buttons

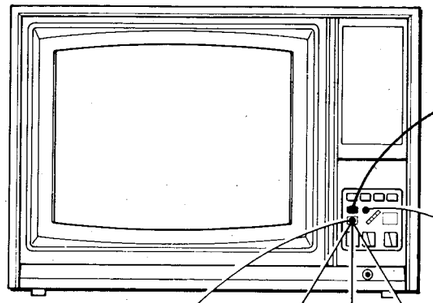
PROGR buttons

◿ (volume) buttons

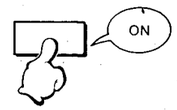
◑ (picture) buttons

◐ (color) buttons

2. OPERATION



Turn on the power with the ⏻ switch.



⏻ (standby) indicator
Blinks when any function button on the Commander is pressed.
Lights when the TV is turned off with the ⏻ switch on the Commander.

Remote control detector

7 meters (23 feet)

Remote control range

30° 30°

1 **Select the desired program with the PROGR buttons or program number buttons.**

Once the TV has been turned on with the ⏻ switch on the TV side, you can turn off the TV with the ⏻ switch (standby) and turn it on again with the ON switch.

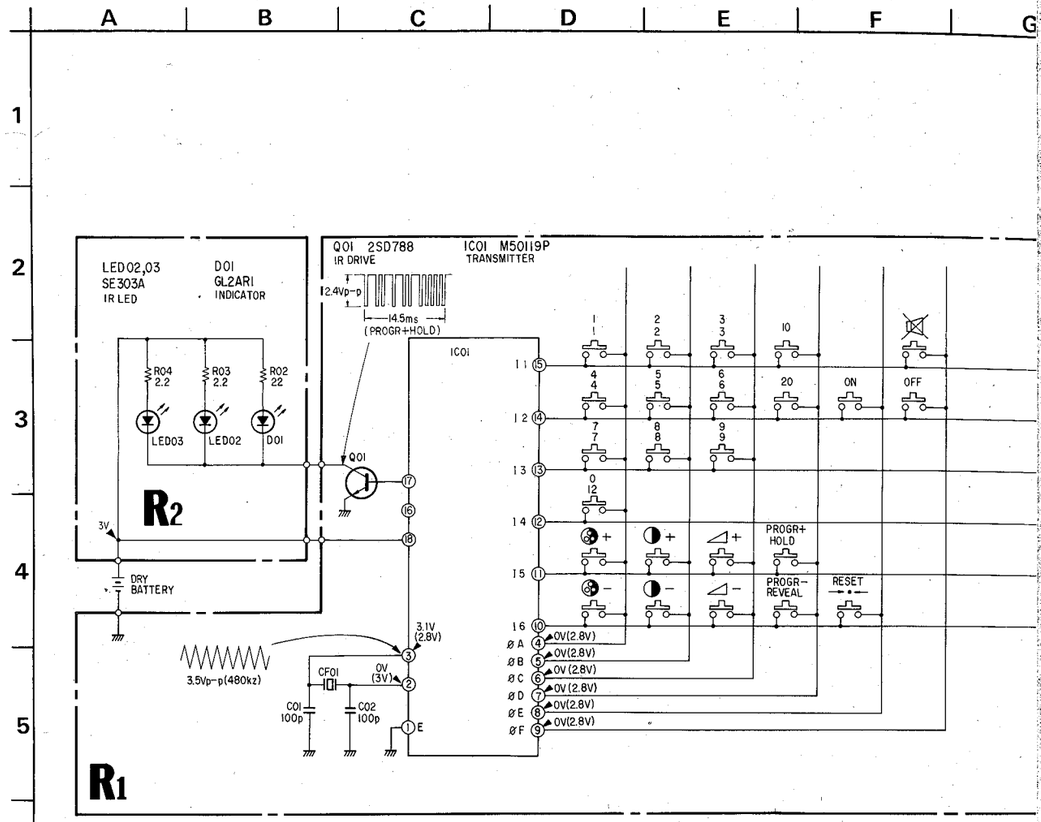
2 **Adjust the volume.**

3 **Adjust the picture contrast.**

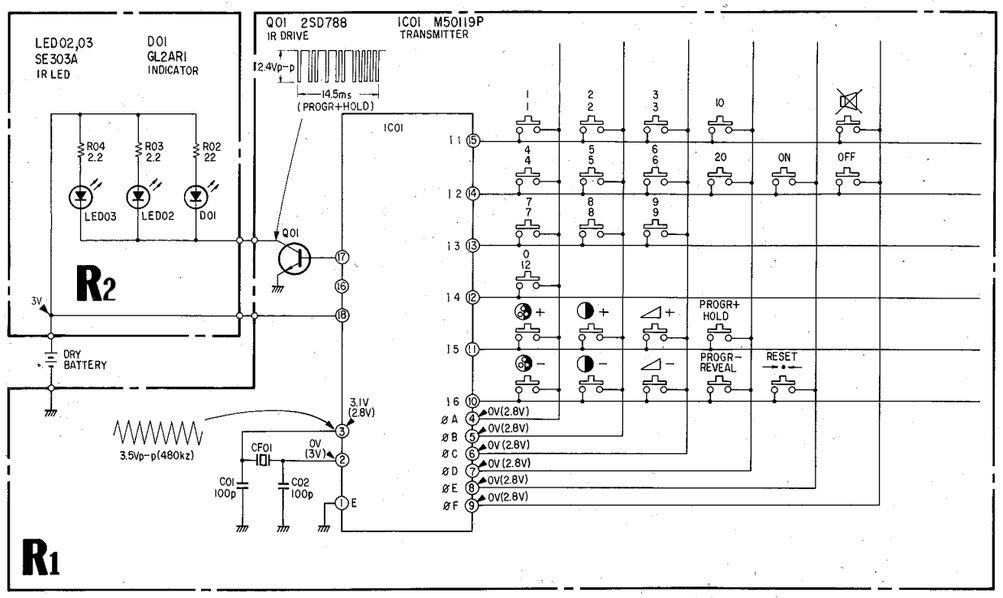
4 **Adjust the color.**

We recommend that you adjust the volume, picture contrast and color to your preference **with the buttons on the Commander** after adjusting them on the TV to normal levels.

3. SCHEMATIC DIAGRAM



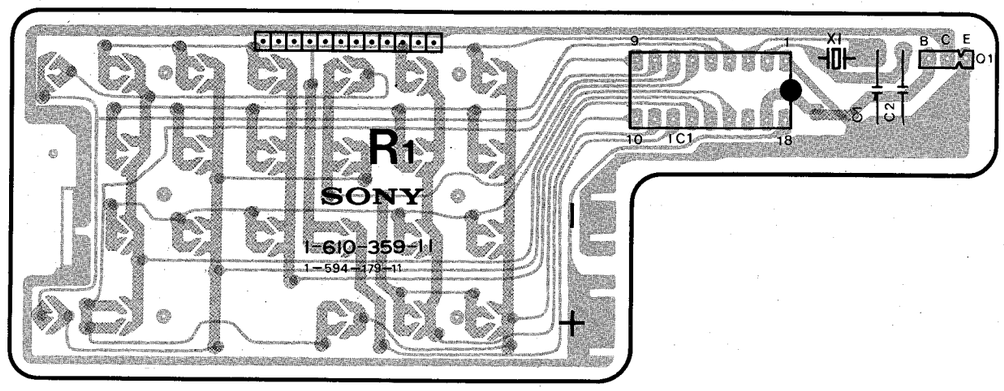
3. SCHEMATIC DIAGRAM

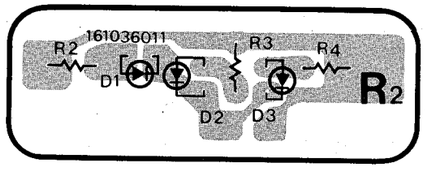


4. MOUNTING DIAGRAM

— Conductor Side —

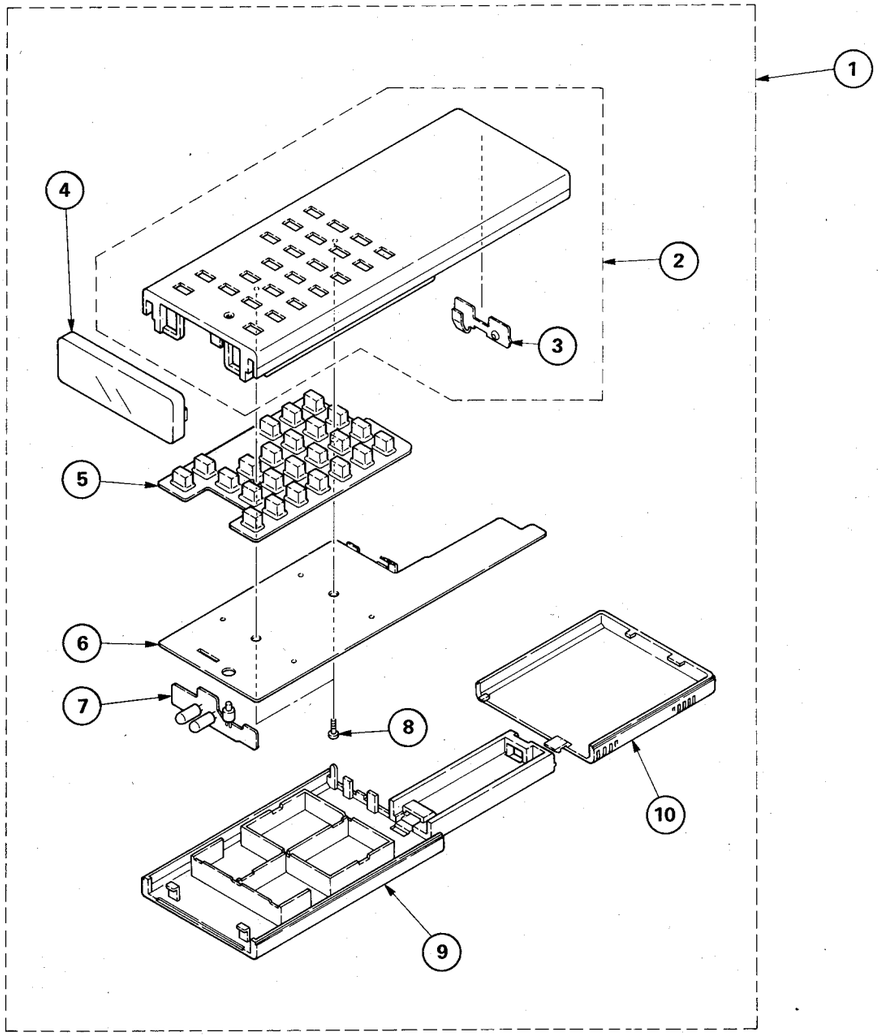
R1 R2





5. EXPLODED VIEW

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



No.	Part No.	Description	Remark
1	A-1470-630-A	COMMANDER ASSY (RM-622)	2-10
2	X-4367-304-1	CASE (UPPER) ASSY, COMMANDER	3
3	4-356-344-00	TERMINASL (A), BATTERY	
4	4-362-018-00	PANEL, FRONT, COMMANDER	
5	4-367-308-00	SHEET, RUBBER	
6	♦:1-610-359-00	R1 BOARD	
7	♦:1-610-360-00	R2 BOARD	
8	4-356-741-00	SCREW, TAPPING (BIND 2X5)	
9	4-362-023-00	CASE (LOWER), COMMANDER	
10	4-362-021-00	COVER, BATTERY	

6. ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

Ref.No	Part No.	Description			Remark
	♦:1-610-359-00	R1 BOARD			
		********			
	♦:4-362-019-00	TERMINAL (C), BATTERY			
	♦:4-362-020-00	TERMINAL (B), BATTERY			
		CAPACITOR			
C01	1-161-271-00	CERAMIC	100PF	5% 50V	
C02	1-161-271-00	CERAMIC	100PF	5% 50V	
		FILTER			
CF01	1-527-476-00	OSCILLATOR, CERAMIC			
		IC			
IC01	8-759-600-07	IC M50119P			
		TRANSISTOR			
Q01	8-729-378-84	TRANSISTOR 2SD788			
**********					
	♦:1-610-360-00	R2 BOARD			
		********			
		DIODE			
D01	8-719-900-23	DIODE GL2AR1			
LED02	8-719-107-82	DIODE SE303AY			
LED03	8-719-107-82	DIODE SE303AY			
		RESISTOR			
R02	1-247-791-00	CARBON	22	5% 1/6W	
R03	1-247-767-00	CARBON	2.2	5% 1/6W	
R04	1-247-767-00	CARBON	2.2	5% 1/6W	